

aaattcttct cttaacaatt aacctagagc acaaaattca ttctaggtac tactacatca 120  
 attaatgatt agtaaaatgg caaagaggaa aacttgtaca gagatgagga aaatgcacta 180  
 acctgtaaca tttctttcat caccaccctt gttgtatgca agtctttcaa agaaatgaca 240  
 caatagggga tgatacttaa taatactaaa aagagtcctc ttgcactctg tttgatgatt 300  
 gagccaatat gattcagaat gcttatcttt aatcttcctt gccatggctg caaaattcac 360  
 cttntaaacc agctggattt agaaatgt 388

<210> 21470  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21470

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 gccgatagac actgaatctt tgacaagggg tgcagatgac catatttggt tccgtgctgc 120  
 aatgggctcg cttaccttga gttagtggag gggagactaa atagtctcag tcgatagaca 180  
 ttgagttttc gacaaagggg gcaaatgacc atattggtct ctacgcgtca tcggacttgc 240  
 tgtctctgga tgaggaaggg agactaaagt agtctcggtc gatagacatc gagtcttcga 300  
 caaaggggagc agatgaccat gttggttgct gcatgtcatc ggacttgctg tctctatatg 360  
 gcgaaggagg actaaagtag tcttggtcga tagacgtcgc gtcttcaaca 410

<210> 21471  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <400> 21471

tctgcttata cttatggttt gcctccggac ttcaccccc gtgccactcc agaagattta 60  
 agccaagccc ctacttttga ggggcaactc ccaccttatg aagactatcc cggacaagac 120  
 gatggggaag gagataccca tcttggtccc ctgctccacc tcaaagatcc atccccgcat 180  
 gaactacccc agccgaacat agtccgcat atcccggtc caccacgcc cgtaaaagaa 240  
 tctgttcctt tcgcggaaga tacgggaaag attgatgcgc ttgaagagag gttgagggca 300

gtcgagggccc tcgacaatta cccattctcg gatttggcag atctatgtct tgtgcccac 360  
atcgtcatcc ctcccaagtt caaagtacca gactttgata ag 402

<210> 21472  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21472

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ttctcttggg atttgcacaa cctatgggct tgatttaaatt taaagaaatt aagggttaatt 180  
aagggtgaaaa ctctaggatt gtggctgcct cttggctgac caaggagttg cacaattttc 240  
catatgttta tgtgtcttaa ttctaatttt aattacgtat aatgacacca tcaattgttg 300  
ttatcaattc tagttttact tatgtttaat gacaccatca attgttggtta ttgggtgatca 360  
tttcacttgt gtaaccaact tgatgtcatt cctattttata ggctgcacat tatctaataa 420  
aaaaaat 427

<210> 21473  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21473

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gtttacaaat taagcttata tatgtgtctg taataatgca atttctatta taatgaggct 120  
gtaactgatt gtctctgttt tcccatgtaa atctagtttt gtctaataaaa gggaagagaa 180  
ggatatatga tgctggcttg tttggctctga tcggagagga tgatgatgag gtgggtgttt 240  
ttccctagtt aagaattgag aaacgttgct ctcttatttt ttttctgaa tttctcctgt 300  
tgtaattat taattaatta tcatgagatt tgggtggctga atttagcaac tatgaaaatt 360  
acagggattt cttgatttca tgcaagaaat ggccttgatg atgcagaaaag tgagacccaa 420  
ggtattgcat atc 433



<210> 21474  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21474

agcttattag aacaaaattg cctcaatcat ttccaaatat gcatgtgaat tangaagcat 60  
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaagt 120  
 attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180  
 tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaag 240  
 aactttttatt ttcaaaacaa ttacccattt cttgaacata tcctataatt caaagaanaa 300  
 catgcaaagt cgtacatgca cacaaaattg acccanaata ttaaactaaa aatccgacga 360  
 aactaacaac attaacanat taacacaact aac 393

<210> 21475  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21475

tctatcaaac tcagcttgctc ataagactct tctcttgatg aagggaaaat tatatttcca 60  
 tgtgctacat aagaaaggac gatagttttt cgagttgaaa ttgtgaaact tcacctttac 120  
 aaagatggat tcatgcctaa ttacatgggt tggattgatc atggtgaaaa gatgccacat 180  
 gttgataatc atcacatggg tgttttaagt agtgggtgtag atgtggccta aggtgaacca 240  
 tttatgttaa tgcaggagat gatgtttgat gctcttaggc agcccaaaat atttgaagca 300  
 ccaaaatcag ataacatgga agagcctata aatgaagaag ctcaaggatt ttataatatg 360  
 ttggtagagg caaataacgt cattgtttga agggcatcag tctctaagtt atcaattntc 420  
 acttatagct tgcaagtcca attggaatgt tcctaagta 459

<210> 21476  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 21476

agcttggtact tgggtttatac atgattgata catgcttttg gacttgtagg attcaatttg 60  
ggcaaaattg gatgaaggta agagtgggtt tcgaaatctg cactttatgc agaattttgc 120  
tggtgaaatg tgcagcagaa ttttgatat gtgccgaaaa atgcttggtg atggctgggt 180  
gtggaaagcg tagtacatat ggggttcttg acatttccta gcagatccca acgggtcaaaa 240  
tgtagactta tgtactagag acttccagta aaattttcga gtcgatccaa cgggttaacga 300  
actggaacga agagaatgtt actgtgggtt ttgaatgtga aaagctgtga tattgggttt 360  
gtgtttgggc agagttttct 380

<210> 21477

<211> 466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21477

gacacttcca atactcaagc ttgagatgag gaagtgtga agggtgaaac ttctgtctnt 60  
ttttgttgac ttcagagtgg tacctggaga tatgtcgagg gggtcaggag accttgggga 120  
cgtcagggtg ggtgctattg cccaaaacca agcttgacca atcccgaccc aaccggggca 180  
tagtcggtca gtgagaacct gtgatgtacc taagcaggcg agtcctggc agtcaacaga 240  
taaaaggaaa acaagaccac aaagcaagga ggcttgtggg ggctggccag ctatgaattt 300  
tgtgtaatat gtggattgtg gcctctggta atcgattacc aagggtgggt aatcgattac 360  
aaggcttaaa attgaggaca ggaggctaag atgggtctctg gtaatcgatt accaaggggt 420  
ggaatcgatt accaggcttg aaaacgaagt caggaaactt agggag 466

<210> 21478

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21478

agctttcttg aaacatatat gtttggctt gttgctgaca gatacaaaa actaccaatt 60  
atacttctat aaacagaatc atttgctaaa tcaataccat catttattga taacttttca 120

ttcacaacaa ttggagtgc aacaggcttg cattgctcca tgcgaaactt cttcaatata 180  
 tccaaagcat atttcttttg tgaaatgaag atcccatcat tagactgaga aatctccatc 240  
 ctaagaaaat acttcatttc acccaagtca gtcatttcaa attctttttc catgtccttc 300  
 ttaaattggt ttaaggaatc agattcattt cctataacca acaaatcadc aacatacaag 360  
 gaaacaatga gctgcatttc attnttncac ttcttcacat ac 402

<210> 21479  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21479

tcaagctntg tgtgtggaac attgtaatac catatctgca ggagattttc ttgctatttt 60  
 atgaacgggt aaacggtcag acagagaacg ataattgaca agatttgagt cggtttctac 120  
 cttctctctg cttttaggcc actcaattgg gcgtttatat ccttcaggaa caggaacaag 180  
 gcaggtagga ggttcttcag gacagtgtct ttctcgatgt tcatagtgtt tagtactccg 240  
 gagactccta atagctttcc agttgtcaag gcatgggata aaatcaggac cagcagtgac 300  
 attgcaaagc ttccacttgt atccagttgc ctgcttgagg gattcttgag actccttttc 360  
 attcttagac tctgctgcct gagttgacca agaccagtt tctgtagtac tttcttcgtg 420  
 aagctcagac tgagccccag aaggatatac c 451

<210> 21480  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21480

agcttctagt cgtccataga cctcctctgt ggtacggtct agcaaagctt gcctctgtgc 60  
 attcatcgca tccactaaca gacgttgagc gccgtccaac tgatggtact cgtcaccacc 120  
 accacctgct ccagccataa ttcaacagga aaaaaaaaaat gtgcaataaa aattattaag 180  
 gtttcaggac ctcaaacac tctactcag tctcttagat ggtagtacac tcgtgtttta 240  
 tgctctcaat aggcttttgt gtaatgtatt cctctctgac ttttaccact cgtgtttcct 300

cttaagttcc tggatggacc aaattagaca cacaaggtaa tataaaataa aaggaaagac 360  
aatataatga tcacaaacag aattgatntg ggataaaca ctgg 404

<210> 21481  
<211> 445  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21481

catgagagag tcaaagatca aattgagaga naaaataaat gctatgctat acaagccaac 60  
aaagggagaa agaaggttgt cttcgaaccc agagattggg tttgggtgca catgagaaaa 120  
gaaaggtttc gaaacaaagg aaatcaaagc ttcaaccaag gggagatgga ccatttcaag 180  
tgcttgaaag aatcaatgac aatgcttaca aagttgagct gcccgggtgag tataatgtta 240  
gttcaacctt caatgtcttt gacttatctc tttttgatgc agatggagaa tccgatttga 300  
ggacgaatca ttctcaagag ggagagaatg atgaggacat gaccaagagc aagggcaagg 360  
atccacttgg aggacctatg acaaggggta gagcaaggaa agccaaggaa gctcttcaac 420  
aagtgttgcc catattattt gaata 445

<210> 21482  
<211> 403  
<212> DNA  
<213> Glycine max  
  
<400> 21482

agcttcttct tggcttctct ctccttagcc acccgagct cagactttga ctctttcagt 60  
cgagcctcaa ggtccaccac caatttgga agctcctct gctttgccat aatgccttcc 120  
acttggtctat ccaagtcctt ttgctcctac tgcaagtcct tacaacattc gaacaactta 180  
tcaccatcca acctgggtgcg caacaacttg gccaaaatgc ccctaactt ggaagacagt 240  
tggtgggttg acttcacaac ttcaatgaag gcaatgggtg ccctagctac cttatggcgc 300  
tcttgtctcc aaacctatgc agcagtagcc atccatttgg tgacctttgc ctccaaggat 360  
gccaccttgc gtagaagcct ctggtgtcgc tgtgcattct cct 403

<210> 21483  
<211> 397

<212> DNA  
<213> Glycine max

<400> 21483

tggaccttga acaagcaatc aactcctctt tcatatccat gctatgtgct cgcgactggt 60  
ccctttcttc ccttcgcaac ttgagttcat tagtgctacc ccatagagct ccgcgaaatt 120  
ggttccggcc atactcttcc ttgcgagccc tcttgggtctc ttgttcaagg gctcttgagg 180  
taattgcatt ctcttcccg t aacccggcgc actccttccg aacgtgtgta gcagccaact 240  
tgaacttctc cttggcgagt tttgcctttc ctaactcgct tttgagagct tggacttctt 300  
cgctcctctc cggtgcttca aaattctctt cgctgacgac ttttgacttt gacttggtag 360  
aacctcttgt cggattgatt tgatcccatg cttacta 397

<210> 21484  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 21484

cgctgcaagc ttctatagaa ggttcgttcc taatttctct acaattgcat cacctctcaa 60  
tgagctgggtg aaaaagaatg tggcatttac ctgtgggtgaa aaacaagagc aagcctttgc 120  
tttgctcaaa gaaaagctta ctaaggcacc tgttctagct ctctctgact tttctaaaac 180  
ttttgagcta gaatgtgatg cctctggagt gggagttgga gctgtattgt acaagggtggg 240  
caccctattg cttattttac tgaaaaactt catagtgcc a ccttaacta cccacctat 300  
gataaagagc tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc 360  
aaggaatttg tcattcatag tgatcatcaa tcacttaagt a 401

<210> 21485  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21485

cctgactcac catanacctt gacccatttg agaatgtcaa tccttaccct ctgaagcaaa 60  
aaaagaagag aaggaaaatt tccaatcaaa ggaaaaaaga gaaggacaat ttccaatcat 120

agagaaagca aaaaaaagag agaaggaaaa tttccaatca aaggaaaaaa gagaggaaag 180  
gaaattgccca atcaaagagt gggagaaaga aaaaagaaaa gaaagaaaag tcccaaccaa 240  
agaatgggag aaagtaaaaa ggaaggaaag aaagttcctc atcaaagaaa ctagaagaaa 300  
tgtgcagaaa ggtctttttg accagacaat atctgaacaa tacagaattg tcaccaaattg 360  
aacaaaagaa agaanaggag accatgacct atagtgggtct tctccctttg attaccaacc 420  
aatatcctg 429

<210> 21486  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21486

agcttatagt ttatataaga agaaaccttt ttataatggt gacattccat ctagagatca 60  
tagttctttt tcaacttata aaactcatta ttagcatgga cacatttttt ttttgcaaaa 120  
aaagcttggtg ttaagcatt tccttggact cttcttttga atcttcaaga gttgtgggta 180  
aggatttcat cctttcttct gaatcttaaa aatccttaag aagagtctct cgtccactgg 240  
atacctttta atccgtaat gccttgacct actcaciaac aaagggtgtct tgtacatcac 300  
ctggggaagt ggttctagga caaatcaac taaaagagtt cgataagttt tcttaagatc 360  
ctgatngctc ttttcaagat gttgaaaa 388

<210> 21487  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21487

tctcaaggaa gctacctagt ctataaatag atgcatgtgt tacacttggt gtaactttga 60  
tgaatgagag tcttgtaga cacaactcaa agttcaactt ctctcccttt ttcttcttc 120  
aatttcgtgc tccccctccc tctttctctc cctctttctt ttctccatt gaagcatcct 180  
ctccaagctt cttatccaag gctcatcttg gtggtgaagc tccttcttcc gtggcttatt 240  
ccttaatgga tggcgctcc tctcacctcc tttcctttgt cttccgctgc atcttcatcg 300

tggaatatca ccattaaagg accccattga agctcanaga tccagcctcc atagaagtcc 360  
 cacaagcaag cttccatcaa gtggaatca gagcacaaga gcttcaagta ggtgcacctt 420  
 anaccttca 429

<210> 21488  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21488

tttgcaagct tgttaaaata ggttctaaga gaatctcaag tggaatttag cataacttcta 60  
 tgaaacaatc atgagaatag aataacaagg gacactttga cattcctaaa aacaaaattt 120  
 aacaggagtt ctctcttttt gagggaaaga gcctatttta tttcaatatg atagatatataa 180  
 ggcaatttat tttgagttgt gtcactagaa gcaagcacat acctaattga ataaagatct 240  
 acttctactc gaagcacatg tagaaatgaa ccatcaagag accatgctaa tcttctaaat 300  
 tctanagaaa gatggcacca tctcattatg gaag 334

<210> 21489  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21489

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 accgcttttg aaaacttctg gaagcccaaa tgggccttgt gctattncat cccccctttt 120  
 tactaaatac acccccttac ctttnttgct gattcttttt tctaacgtta tggaaactta 180  
 cgaattatgt aacgatactt gttttccttt cgtaatgtta caaaacctta cggattacgt 240  
 aatcatcctt tttttgcctt ccggaatgtt acggaacttt acggattgtg cactaacact 300  
 tccttttaat ttccggcatg tcacggaact tcacggattg tgctacaatg ctttcttttg 360  
 atttccggca tgtctcgga cttcacgaat tgcctaacga tgggt 405

<210> 21490  
 <211> 378  
 <212> DNA

<213> Glycine max

<400> 21490

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tgctcgtceta ttgaatagct aggtttgttt ctggaacctt tgggtaacct aaggaccttt 120  
tttggtttct ggtgcaagga ttggggaact catggtgacc tgagacctat tgccgctgcc 180  
attgaatagc tgagtctcgc tgccattgtc ggtgttgagt ttgaggtaag cttcatgtct 240  
tcattgaaac tttgtgcttc cgcgtacgtg ctctttgtgc tcacttctct ttgaagcatg 300  
tgtatgttcc catcgtaatc tgttcttatg aaaactagct gggttatagat tgtaattagc 360  
ttgtcattag tactacta 378

<210> 21491

<211> 409

<212> DNA

<213> Glycine max

<400> 21491

tgattgacgc gggatggcta acattccatt tgatggtttt tatgtgaaga caaatccgct 60  
cgccaatcat gggggaccgg tggtaaatgc aatagaggca tgcgggctgt aaaggcctaa 120  
gcaaatgaag gacggggtaa cctcaagaag gtttatcttt gaagcattga aagaggcggg 180  
catcgtttcc tttgatgggc acaaagggga ctctgtttg atgcatctgg gtgcatcaca 240  
tgacatggag acatgttcaa tggcagagga gctattacag caaatgatgg accaaggccg 300  
at ttgagatc agtaaaggga acaagggaga acaacacatg tacatacagt tggcgaacaa 360  
agaaagcccc gctagaccta agcctttggt gatacacttc actagggat 409

<210> 21492

<211> 327

<212> DNA

<213> Glycine max

<400> 21492

tctagctttt ataaaataac ttggcctgcg ttgaattgtc tttgggcttg gcgaccatga 60  
tcaacaaagt actttcggca cctactatat gttgacttga ccaacgttga tatcggaatg 120  
ctgcgacaat ctttcaacac cttattcaca cattctgata ggttggatgt catctgacca 180



tatcttcgta cacatgtatc gtaagccatg ctccatTTTT cctttgaaat gcgatcaatc 240  
catcttgcta tggctggagt cagttgacaa aatgtttcta aggtatgatc aaacacatgc 300  
attgcaggag tgtacgctgc atcaaat 327

<210> 21493  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 21493

tatgctgcac atattaacag tagacctcct aacctcagta gcttaatcaa ccacagcgga 60  
gcaattatga cctttccagc aacagatata accctggatg gaggaatcac cctaccctca 120  
gatggtccag ccctcagcaa caacaacagc agcctgctcc ttccttccaa aatgctgctg 180  
gccaagcag accatacatt cctccaccaa tccaacaaca gcaacaaccc cagaaacagc 240  
caacagttga ggccccctca caaccttccc tcgaagaact tgtgaggcaa atgactatgc 300  
agaacatgca gtttcagcaa gagactagag cctccattca gagcttaacc aatcagatgg 360  
gacaattagc tactcaattg aatcaacaac agtcccagaa ttctgactag ctggcctctc 420  
aagct 425

<210> 21494  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21494

tagcttatca tggatatcaa acgtataaag aaatcggttaa taaattctac atcatcaatt 60  
aattaaatat tatttaagat gttactttta gaataattat tataaaattt aataatttcc 120  
aatcatatga taactcgtaa tttaattatt ataaattaca ataattttca attatatgac 180  
aactcattat tgaataatta cattaaaaat atttatgttg tcaatatatt taattaaatt 240  
taaaataaaa ataaaaaata gatattgaac actaaaatga ttattagtgt atttggatnt 300  
ttttttcttt ttttggacgc ttggatcttc gttatttcat agtgcacgta tgtcanaatc 360  
cgaaaaagac gtaaaagtaa ataatat 387

<210> 21495  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21495

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 agtggccaag gatgcatggg agatcctgaa aaccactcat gaaggaacct ccaaagtgaa 120  
 gatgtccaga ttgcaactat tggctacaaa attcgaaaat ctgaagatga aggaggaaga 180  
 gtgtattcat gacttccaca tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240  
 agaaaggatg acagacgaaa agctggtgag aaagatcctc agatctttgc ctaagagatt 300  
 tgacatgaaa gtcactgcaa tagaggaggc ccaagacatt cgcaacatga gagtagatga 360  
 actcattggt tcccttcaaa cctttgagct aggactctcg gataggactg agaagaagag 420  
 caagaacctg gcg 433

<210> 21496  
 <211> 105  
 <212> DNA  
 <213> Glycine max

<400> 21496

tagctttttc ggaaagtttc cggataaaga cttcttccgg aaaaagaatt tgggaattcc 60  
 ggaagtagtc acaaacttcg tccggaagat cgtcatccgg aagtt 105

<210> 21497  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21497

cacgtccaca tccaanncgc cccacataca gtgcctatgc aaacagactc cgtaanacaa 60  
 caacactncn ntcnntnaag cncgccgnnc nttgaggcct gtgaatgcgt cgcaanccgc 120  
 ccnncaacnn aacncacgcc accgcgcacc gcgagacaaa caggcacatt agccgggtct 180  
 aatcaaaac cgacggagac accgagcagg gcggaccagc ggctaacgcg aaaaagcagg 240  
 cggccggggc ccaacaagaa gacggggccc aaacacggac cataaccag agagagcagc 300

cccgggcccc aaggcccaag cgaccctgaa gagcagaggg cccacaccag aaaggagaca 360  
 aggcaccggc aaacgaacca tcaccacaaa ggagaggccc aagcccagac cagaaccaca 420  
 gacgggacaa gggggaaaca cacatgcaca gacaaagcgc gaaccgagaa agcaccgcgg 480  
 caccccaacc tcaggggagac acctccacac cgcagaggcc ccaccagaac cagcagggcg 540  
 acggcc 546

<210> 21498  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21498

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 tagaaatgtg acctaagcgc ttatgtcatt tccaacaata ttttaattaa aagacaacct 120  
 aaacacattg tttccagatg aacacaaaata acccaatttg tccaaataag aaacccaaaac 180  
 caaatttcgt ctaaattgacg gtacaacaaa agtgtctttc aaatccaaat aaaaactagt 240  
 acataataat ctaaaatgcc atatagcttc cacctccacc tatttaccat ctccaacata 300  
 tatccatctt tcagaattaa ttggcttccg gtagcttagg caacactgca ttgaaacact 360  
 gatngtagta gtggcaccag actctaacca ccaagtgggt ctaagtactg 410

<210> 21499  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21499

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 ggctgtggga ccttcacctt ccctatcaag agaagggttg gtcccaggcc aggctaccct 180  
 ctctaaaaac tgcttcactg ataggatgaa tcctggagga gctaccacct gtagactcta 240  
 cagcaatata atctgaccct aatggatact ttgaggcata gcttcaaagc gctgcgagtc 300  
 aacatgagct ggaactgaag gagctgcaga agtagatgtt ggagtaggtg ctggagctgc 360

agaagaagat ggaatatcag ctggcctcgc cctcgccctc ctagcccccc ggaaagcaac 420  
tgttagatca tcaatgtttc aatag 445

<210> 21500  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 21500

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cagcttcaac cctataacgc aacgtggcgg acaaaagtgg gcagtaaact tgaatggtcg 120  
tcattgtcaa tgcggaaggt attctgcgct tcaactatcca tgttcacaca ttattgcagc 180  
ttgtgggttac gtgagcatca actactacca atacatagat gttgtttaca caaacgaaca 240  
catcttaaaa gcttactccg cacaatggtg gcctcttggg aatgaagcgg ctattcctcc 300  
ttctaatagac gcatggacac ttantcctga cccaactaca attcgtgcga aaggtcggca 360  
aaataacaag gataggaatg agaggattgg tcaaccatct ga 402

<210> 21501  
<211> 439  
<212> DNA  
<213> Glycine max  
  
<400> 21501

gactcacgct ataatatgtt aattacaacg ttagaaaact gctggtaatt tattaccatt 60  
tatgtgtaat cgattgcgca gtgcagattc tgaattcaaa ttttaatagc tgttgtaaatt 120  
cagttttggc cactggtaat cgattacatc ctctggtaat cgattaccag agagtaaatt 180  
tgttgaaaaa gactttttta cttaaatttc ttggccaaac tttttgctac ttcaattgga 240  
attccttccc tatttaatat accctttcta agactctaga gactgtcttg atcatccatc 300  
ttgaatatat ttaatttctt tgtcttgaat agagctttga gacgcatgtg aaactttggc 360  
atcatcaaaa cattcagctt gatcctttgt ctacagtttc gtgatagaat actatataaa 420  
gttagtggac aaaaactca 439

<210> 21502

<211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21502

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 tgctttctcg cgtcttcaag aaccagagca aacagcagaa tacttccaaa tcttctccat 120  
 gcctcaccgc aaattccttg atgagctgaa aaaggaatta tcgggatcag aggaattcaa 180  
 aactctcatg cttcaggtcc gcaatgaacc ttcgaaaaac ccatattttg aaataagaga 240  
 caacctattg ctttttcagg ggtgaatttg gattaatcag ggcaatcttt tcattcctct 300  
 nttattggaa gaataccaca aatctccact tgggtggtcac atggggctag ctaagactct 360  
 c 361

<210> 21503  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21503

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 cccgacgaaa atactgacaa aaacttatct tctccttttt ggacaaagta tggcaagcta 120  
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt atccccatat 180  
 cagctagatc ttgacgggta ttcaaaccat ccttcgtctt gccttgaatg ataaggagcg 240  
 tcccaatcac actgtcacat acatttttct cgacatgcat aacatcaata caatgtctaa 300  
 catctagatc agaccagtac gaaagatcaa agaaaatggt cctcttcttc catatgcaat 360  
 tcttacgttt atccttcttt ngggtctttc caaatacagt attcaggtgt tgaaccact 420  
 gatatacctg ctactagtc aacggtatgg g 451

<210> 21504  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21504

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gtattcgttt aaaatgcatg aagataaatc agtaggagaa caattggatt tgtttaataa 120  
actgattctt gatcttgaaa atatcgatgt cactattgat gatgaggatc aagccttggt 180  
attgttgtgc tctttgctta agagttactc tcatttcaaa gagactntat tgtttggaag 240  
agactctgtt tctcttgatg aagtgcaagt tgctctgaat tcaaaggaat tgaatganag 300  
aaaggaaaag aagtcttcta taagtggatg agggctgaca gcaagagaca agaccttcaa 360  
gaaagatagt anatttgata agaaga 386

<210> 21505  
<211> 450  
<212> DNA  
<213> Glycine max

<400> 21505  
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taaggatatt tataaatgaa ataaacttaa ttgttttatt caaatataaa atttaaaaat 120  
gaataaattt tggtatttta tcaaaataag aaatttttaa aataaaaata atattcaatc 180  
aagaaattaa aaaaaattga aggaatttca attgaaattc ttaaagttta actttttttg 240  
taattctaaa atttttcatc caaataccac gtaaaaggaa ttcggttcaa taaaaaaaat 300  
tctaagcgt agctggcatt gataaccag tcatcattat catttggtgt gcacacagta 360  
gagaaaaatc atttcttata aaaaataaaa gtagagaaca atcaaaacca aatttaatca 420  
atattcataa gggtgtgtga gccaaatact 450

<210> 21506  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21506

agcttatctt gaattattat tgtatccttt gcaccctttg tgagctaaat tacattntca 60  
aaattgaacc ctggacttga atgaatatct ccagatacct tgttttagatt ctaggagagc 120  
agatagttca aggcaaatta cctcaaattt gggggagttg attgggatgt aaagtaaaag 180

[illegible]

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<223>      unsure at all n locations
<400>      21507
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<210>      21508
<211>      378
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      21508
```

9017

<210> 21509  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21509

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 ttataggagc aaaatagtaa aaataaaaag gttaaattaa taccaattta ttatctcttc 120  
 gctataactt tctacattct tctaaaaaaa tattctctct agggaaacac ctgttttttta 180  
 tgggagcaaa atcttttttt atcaaataca tataagaaaa aaaaaattat tgtggggtaa 240  
 ttgccccctt agtccctaac ctacatcctt ccctgctact actacttttt ctaagccaca 300  
 taatgggagc agagttaatc gtgtctgcaa taagtttggc acacatgatt cgtgccccat 360  
 ctttagcaag attgttaaga gttgaggata ttttagtttt tatattntat ttgtaatatg 420  
 cgtgtatgtc t 431

<210> 21510  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21510

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 ctatgtggag aattatgcac tcattttacaa caggactgta tcagcatgcg actcgggtcta 120  
 actgttaacc caagtagccg caaaagggat tgtttaatgt gatgccttgg aatcagattc 180  
 tgtcttaacc caaatagatt ctattactgc agctantgtg gaaggggctg agnggatctc 240  
 tgacgaacca gaactaattg aaacctgacg tgtgttcact ccaaacattg tgatcacccc 300  
 agcgatgcaa aaacggcgat c 321

<210> 21511  
 <211> 266  
 <212> DNA  
 <213> Glycine max



<400> 21511

ctgttttgac tatatttcca cggcctaaaa acaagattag cccacaaaaa tatttgattt 60  
caattgtatc tttatgaaac cactattatt cattcttgta tttatcttta ttaaattgatg 120  
tgatcgtacc tcctcgatac ctacatatt ttatgggtgct taagagacta gaataactca 180  
ttatattaaa tgaggcgaaa aaattaaaca atctgtatgg aatcatatga cacactttgg 240  
atTTTTTTTT tggaagcttt aatata 266

<210> 21512

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21512

agcttattgg cgcaacagta ctcaggtagt gcaggctagc tagactgcga gactacgcga 60  
gggaaagatt aaatttacca gcatacaaag atggctgcta taaaaccgt cattgggtaa 120  
tccagttcaa caatgatgcc tattaaacct gtcgttgtaa ttggaagacg acatcgTTTT 180  
cggataaac gtcgttgaga taaagcgcac atttactaaa atgtcaccgg ctgttaaaca 240  
acgacatttt tcggaccacc gtccttgaaa gcgggtccta gaatcaagat tntgtagtag 300  
tgaatattct atattacatt ctataactat tttcttttac attttatgca tcatgcaata 360  
ttttcatatt agtaatgtct aaattctaata ata 393

<210> 21513

<211> 430

<212> DNA

<213> Glycine max

<400> 21513

tccatcatct agtgtcaagg gaaattgtct tgtgttaagt gagattgttc ggtgtcgagg 60  
gtggtaacct cgactagtgt aagagttgta ggtatgtgag gcatgtcaag ctcccctagc 120  
ttggacgact attgttttagg cttcttctgg caagttgtct ggggtggaca tgcttttgat 180  
cttgcaagca aagtttagacg tgtcagggtg atgatgtcct tatatatgac aattcagccc 240  
ttttttgatc attggaggat gcattgaaga caaatgtttc gttttgtctt ttgctacagg 300  
cgagtgcac acacacatat tactcttgca tatgtatcac tcatggagtg ggtgtgtact 360

gaagatgcaa tacatgggtg agtggagctg catcatgggt taaaaaatta aggcaccatt 420  
 ttagcttatg 430

<210> 21514  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <400> 21514

tagctttata gcacagcaac acagaatcta tgtgtccaac acccctcaat tcaatgggtt 60  
 ttctaggttt gaaaagtga atcgagaatg aggtaaattt gaagcaaact ctcacctcac 120  
 accagtccat aacatcaatc taaacttgct caaactggat ttacgcttaa aatctcaccg 180  
 aatcaaaatt tgactcttcc acacccaaat ttgccctaga aatggctctt tgttcacttt 240  
 ggtcatttgt ttttctctct agcacagcct aatctttctc ataagtcta aatgacattt 300  
 caagctagga ttaactcact ttaacctcca ttaccacag aatccagaat taacctttca 360  
 actctcaagc ctcactcttt ttcactcata ca 392

<210> 21515  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <400> 21515

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 ctgggtccatt tcttcccttc gcaacttgag ttcgctattg ctaccccata gagctcggcg 120  
 aaatttatcc cgccatact cttccttgcg agccctcttg gtctcttggt caagggctct 180  
 tgcggttaatt gcattctctt cccgtaacce ggcacactcc ttccaaaatg tgtgttgcg 240  
 ccaacttgaa cttttcctcg gctaatttcg cttttcctaa ctgcttttg agagcttgga 300  
 cttcttcgct ctcttcgggt gttcaaaaac tgtcttcgct gacgactttt aacttggtga 360  
 gccaatctaa acctcgata tgaactttca gccattcatg ata 403

<210> 21516  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 21516

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gagcttagcg agagaagctc gcttagctca gaggatgccg caacaaatcg cgcttgggccc 120  
aggaaagctc ggcttagcgc gcgactatca acaaaaaatt gtctaagtta cttgggctta 180  
gtgattcagc ctgcttagc cacatgtagt tcagcaagag gatgagtgtt catcctcaaa 240  
ggttgaactc gcttagcgcg gtaggtgcac ttagctagtt ctttagagaa cgcttatata 300  
cacaatgagt actgatgaac tcgcttagcg cagcatgctc gcttagcgag ttcacacgt 360  
tttccagaaa acgcagaaaa cacagttcgt tttct 395

<210> 21517

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21517

tcaagaatta tgggtctcatc aaactatttg tttccttatg gaaattctat aaacagacct 60  
cccatcttta atggagtggg ttaccactag tggaaaaccc gcatgcaaat cttcatagag 120  
gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180  
gccggaagtg caaccataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240  
gtacaatata atttaaaggc caaaaatatt attacatttg ccttaggaat agatgaatac 300  
tttagggttt taaattgtaa aagtgctaag gatatgtggg atacactaca agtaacacat 360  
gaaggcacia cagatgttaa aagatctang ataaacactn taactcatga atatgaactt 420

<210> 21518

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21518

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agtgtcgtgt gaagttgcag accacatttc gagaagatcc aatggttaac gaaggctggg 120  
cagcgttggt accgaggcag cttcatgtag ctttctctag aagcttcatt aagaggctcc 180

tccagaagct tcattaagag gcttatagca cactccataa atcttctcaa tgatcccaac 240  
 ggtcagatca tggataagta tcttggaag ttgcagaaca natttcgaga agatccaacg 300  
 gttaacgaat gctgggcatc gttttaccga 330

<210> 21519  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 21519

taaattactt ctgtcagaaa agccttacia attggaggag gatgacatgg gaaatttaga 60  
 agagaatcag gaatctagaa taggactata taactggaat tatctttag acaatattca 120  
 agctagtac aaggaattat tgctgggact gcaggctctt tcagcgctgg agattaatgg 180  
 gtattggaga ctagtagacg agagttacat ggacatgatt ctgggaatgc ttttgaaaaa 240  
 tgcagtgttg aatgactggg cacttaatgc tttaaataa gatgaagttg tgagtatact 300  
 ggaatcagat ggatttcta ggggtgcttg aaggcattgt ttgcacgtat atggcaacaa 360  
 agtaaataag tgcataccta gctttgtttg gaagttggat gagaagcgag tatgcataca 420  
 t 421

<210> 21520  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21520

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 gggtttctaata gactcctctg cggcctccac ataaggcata gaggatgggc agtcaccaa 120  
 gatgtcttcc tcgctgata cgatgacaag atgcccttcc actacgaatt tcaacttttg 180  
 gtggagtgtg gaggaacaa cgccactga gtggatccac ggacgcccc aacagacagct 240  
 gtgggggggg ttaatgtcca ttatttgga ggtaacttgg catgtgtgag ggcctatctg 300  
 cactgggagg tcgatctctc ccctaacctc tcggcgggtg ccgtcgaagg cacgaaccac 360  
 cattgaactc ngctntatgt gggaggcatt gaatggtaat ttc 403

<210> 21521  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 21521

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 aacaaggttt ccacatccac aatgcgcgca taaacccacc atccccctgtt gccacactcc 120  
 atctgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca cggggtcccc 180  
 atcaatcctc ccaagcttcc acaacatcca agcgaaacaa cattcaaaca gcacaagcta 240  
 tcacagccaa gcaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaattat 300  
 agctttttctc acttaaagac cccagtaaca attccttcga tccaattcgt taaccgttgg 360  
 attgactcca aaattttact ggaagtctat agtacagaag cctacattgt gaccgttggg 420  
 atctactagc aaacatccat aactcattct g 451

<210> 21522  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 21522

agctttataa agatatttat tttggtggct ctaggggagg ttatggtaga agtaacgggtg 60  
 gtcgtaatac ttcattctgat cgcgggtggg gtgacgggtg ttttggcaga ggccgcgggtg 120  
 gatgcagggt tgccaacttt tagtgtcaaa tttgccttaa gtatggtcac actaccaatg 180  
 tgtgccattt tcaaactcac gagtcactca cttttgttga tccaactaca ctccaaccta 240  
 tttcgtattc aattggttcg attaggtcct caaacacttg tgttaatcct aactcccagt 300  
 ctgttgctca gccaaactaat caacctagtg ttatgctaac aaactcagca tctcatggaa 360  
 atgggtcaagc tagctcgaca tggattccag attctggagc tag 403

<210> 21523  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21523

ntgccgattt agtntttgtc ggtgaaagga ttgaaatggt tctgagaaga tgcaaatttg 60  
 agtatcctgc tttgatgaat gggaagccta gggaaaatgg agagaacaag aaggaggag 120  
 gaacccatgt tgtgactgtc gttcctacat gacccaattt cccactagct caacaatatt 180  
 aatactcagc caatatcagt ctttctcatt acccaccacc ttatcagcca agaaggccac 240  
 ccctaaatca tccacaaaac cegtctgccg cacatccgat atcaaacacc acccttaaca 300  
 caaaccaaaa catcaactac ggaaggaatt ttccagaaaa gaagcctgta gaattcacc 360  
 caattctgtt gtcgtatgct aatttgctcc catatctact caataatgca atggtagcca 420  
 taataccaac aaagatt 437

<210> 21524  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21524

agctttattt atatactaga ctatgttttc attatgtatg aattgcatat gcataaattt 60  
 gatgaagata gccttagtaa tgatgatggt gttagatttg atgacaataa gagtgaaaat 120  
 gatagtgatg ttggttgtga agatggagcc gaggagcaac atggaagtct tcatgaagag 180  
 aaaaggatat cttatttgac aggcgatgag ataaagggtc tccattggga aagtgaagat 240  
 agtgtttttc aattctatac aagatatgct agatgccatg ggttttagt taggaaagat 300  
 gatgtatttc aagatttgaa tgacaatggt ataaaacatc aatttgtatg caattgaaag 360  
 gtttgagaat angaacactt atgaggtgga ta 392

<210> 21525  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21525

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 aaattgtttt gtaatcaaac ctgacacaaa tgagggatgc aaataaatgt cctcttataa 120  
 acaatgcaac tgcttatttt tcacccaaat agccttcaaa catacagcta cacaacttaa 180

ggcacagtat cccctgtgc aatgacctct ctaacctcca cacaattca acgtgtgact 240  
cattaggata caatacaatt tcagcaaact tttgatttaa gatccaaacc ttaatcctaa 300  
tcacaacaat catatgcagt ggatacaaat acacgcagtt ttgtgactct cccgtcatct 360  
ccttcattcc tgcttatttc actaaacttc acagtaaatt ttatcaatat ggcgttggtt 420  
tttgtggtat attgngatac atcggaatga t 451

<210> 21526  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21526

agcttattac aatatacttg tccttcattt aactgtcttt gggcttggcg gccacgatca 60  
acaaagtact ttcgacacct actatatggt gatttgacca acgctgttat cggatatgta 120  
cgacaatcct tcaatacctt atttatacat tctgagaggt tcgttatcat gtggccatat 180  
cgacgtcctt ctctatcata agccatgggc catttttctt ttgaaatgcg atcaatccat 240  
gttgcctatgg ctggactcag ttgacgaaat tnttctaaat tttgatcaaa aatatgcttg 300  
caaggagtgt agcctgcatg aaattagtta gcaacaataa ttngaagtat acatganact 360  
tanattaaca tgaccatgat aaatgaaatc ttaccaat ntttcaacat t 411

<210> 21527  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 21527

tcagaacata atggcaacca ttcctctctc aaaccagatg tggaaacgcc cctcaaaca 60  
gaagtggaaa caccctcaa ggggtcgaga gatcgcaaa gttttgcttg ctgcgcgttg 120  
atgaccactc atttagggct ttttatttaa ttcaattgag ataacgacgg gtttttaata 180  
aaaccgtca taatttttat gaccaatata cattctaagg tggttttcaa taaccatctt 240  
agaatgtgca tcgtaaaaga cttttatcat aaaataatta caaaaatgtc aatgtctcat 300  
tttctaaagt gggtccaaaa gaaccgtcgt agaatgtctg tcgtaaaaac acaagtttct 360

tgtagtgatt gagtcatctg tgtactctaa aattgaaaat tgtatctcat caactacctt 420  
aactccatca aatagacctg catc 444

<210> 21528  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 21528

agcttataca ttcaatttcg agcgtctcga tatattacgg gactcaatta gacatccgag 60  
taaaaattta ttgtcgtttg aattggctca caggctcaac attcaatttc gagcgtctcg 120  
atatattacg ggactcaatc agacatccga gtaaaaagtt aatgtcgttt gaatttgctc 180  
atagcttaaa cattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240  
agtaaaaagt tattgtcgtt tgaattggct catagggtga acattcaatt tcgagcgtct 300  
cgatatacta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattgct 360  
catagcttaa cattcaattt cgagcgtctc gatatat 397

<210> 21529  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21529

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tactcggatg tctgattgag tcccgttaata tatcgagacg gtcgaaattg aatgttcaac 180  
ctatgagcca attcaaacga caataacatt taactcgaat gtctgattga gttccataat 240  
atatcgagac gtcgaaatt gaatgttcaa cctctgagcc aattcaaacg acaataactt 300  
attactcgga tgtccgattc aataccgtaa tatatcgaga cgctcaaaat tgaatgttga 360  
acctctgagc aaattcaaac gacaataact ntttactcgg atgtcttgat tgagtcgcta 420  
atata 425

<210> 21530  
<211> 390



[illegible]

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<210>      21531
<211>      396
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      21531
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aaattctatt	agaaataacg	attgacaata	aagaagtaga	acaaaatgac	aaggtagata	180
ttaataccta	agttaaagga	agattaggga	caaaggattt	tttagcagca	acatatttgt	240
tagttctctt	gaaagttaaa	gtttgctctg	gagaagggtc	ctcttctata	ttttccaagt	300
caatcgtctc	aactcgatgt	ttagccatca	aggaaaatgt	tagtagaata	acaacggtga	360
aaaaagagac	cataagataa	cgctataacg	aggaac			396

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<223>      unsure at all n locations
<400>      21532
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9027



gataaaaatg agagaaaaga aaaagagtga gacacttgag aggaaaaaga gtgagacact 360  
 tgagaaggaa aagtgaggaa agactaagag tgatacactt gagagggaaa agagagatna 420  
 tcaaaagagt gaaaca 436

<210> 21535  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 21535

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 ctggtcacctc tcttcccttc gcagcttgag ttcactattg ctaccccata gagctccgcg 120  
 aaattttatc cgccataact cttccttgcg agccctcttg gtctcttggt caagggtctt 180  
 tgcggtaatt gcattctctt cccgtaacct ggcacactcc ttccgaatgt gtgttgcggc 240  
 caacttgaac ttctccttgg caagtttcgc ctttctaac tcgcttttga gagcttggac 300  
 ttcttcgtcc tcttccggtg cttcaaaact ctcttcgctg acgactttta acttggcgag 360  
 ccaatctaaa ccttgatat gaactttcag ccattcatgg cagccaccaa tgatgccatt 420  
 acgaatgcct ctaagttc 438

<210> 21536  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 21536

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 cgtttttagt tttaggcttt tcttagacac ttttttggtt tgcaattcca gttttgactt 180  
 ttcatTTtag caataaaatt tegtcttca atctataatt tccttctcta ttgattaatg 240  
 gaaggctaga ttttctggtg ttgttccttt tgaggacgaa gcccaactct ctttgaggtt 300  
 tcgcttgcaa tgtggtttcc tggcagtttt ccttcacca gttatcccaa tttcgtgaat 360  
 attaatacgt gcacgcttcg tgttcgatta attgcctctg ag 402

<210> 21537

<211> 412  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21537  
  
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 aagaatcatg ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120  
 taatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240  
 tttattttca aaacaattac ccatttcttg aacatatact ataattcana gaaaaacatg 300  
 caaagtcgta cgtgcacaca aaattgaccc aaaatattaa actgaaaatc cgacgaaact 360  
 aacaacatta acaaattaac acaactaaca aattaacaaa accaacaaaa ct 412

<210> 21538  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21538  
  
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 cttctaactn tttagcgtat ttgatcacct atttaaggga cgactacctt ctatatgggg 120  
 atttatcatt gagtattagt aattgggccc acttgacgaa ttaggtgctc tcaagtcaaa 180  
 ttctgataa ttataaccaa ttgggctgat cctaagtgga cttgggtcga caagacggct 240  
 tatatacaat acgcctaatt tcatttgatc gcgttcacgg tttatgtaag attcttaatt 300  
 catcttaaac ccacactatg ttatcctggc cagtggactt gagtgaacct tatcaacact 360  
 cctttgatac atgcaggagt gcatatctct cn 392

<210> 21539  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21539  
  
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atgcttaatg agttttgtat atttgacatg tgaatcaaga ttctaataata tacttttagat 120  
tattattatt atatcatacc ttatataata tatgggtgatt gcaatgaaag taaaaataat 180  
atatctcgat catcgtgtga tattggattt ggtgtacatg tgaggtattg atatatatat 240  
atatatatat atatatatat atatatatat atatatatat atatttgttt attatatatt 300  
ggatatataa atagtagatt atttttttca catattaaaa tgttatacac atatagatta 360  
aatatgtgaa ttataagatg ttaagggaat atctattaga tgtaacatat tttgaatagc 420  
a 421

<210> 21540  
<211> 391  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21540

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aaaagatgat gacaaagggtg atgacaaaaa gctcaaagaa caactcaagt gactcaaaga 120  
tcaatcaaag aacaactcaa gtgaatcaga gatcaatcaa agaacaactc aagtaaataca 180  
aagatcaatc aaagaacaac tcaagtaaata caagaagaat tcaagaatca agattcaagg 240  
ttcaagatct caagaatcaa gatcaagggtt caagactcat gattcaagaa tcagagaatg 300  
ctcaatcaag ataagtatga taagtttgtc tcaaaaattg aatagcacgt gatntttcta 360  
taacatgtnt accaaagagt ttactctct g 391

<210> 21541  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21541

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actttctgtg attggtttta agatacaatc tttgcatgtg agaattgttc agaaacatta 120  
agaaagctag cagataggcc taaaagaaat gttataactt ggcaaggata cgacataaac 180  
aagtattcat ttacacaaa agcacatgat gagaaaagta caatgcagaa cagcgggggtc 240

accctaaggg ctgaatctca acacttcgca agtgtgaatg acaccaatcc ctgtgtagct 300  
 tccatccctt actttgggtt cattgatgaa atttgggagc ttaactatgt gaaatttact 360  
 gtatgtatatt tcaaagttaa atgggttgat agcaacaccg gtgcgcacac cgatgatata 420  
 ggatttacat tggtta 435

<210> 21542  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 21542

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 ttccgccagt cagcgtgact caaatgtcag tatgacagat cttgtgagcg cggaagatga 120  
 cgtaaactca cgcgtgtcaa cgggcttgtc ggccgtgatt gacgaaggga gcagaagact 180  
 acggtagtct ttgcgtgccca tcaagctttt cgtcttacag acagcaaaaa ataatgggta 240  
 tacggatcac cactcgagta tttccgccag tcagcgtgac tcaaagtga gtatgacaga 300  
 tcttgtagcg gcggaagatg acgtaaatct ccgcgt 336

<210> 21543  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 21543

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 actgttcttc cttcccgga tgcttctttt catatccgcc tgagtgggct tatagcctaa 120  
 accatacttc ccacggtttc cttgagtatt tatcaggcta gttatgccgc cgttgtcttt 180  
 gcctaaacct atcccgggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240  
 tgcacggac agacaaggct gcccaaagag ggagtccacg gaggaaatgc tgaccacctc 300  
 aaaagactgg aaagcggttt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
 tgggcagctt accaagatgt ctttctcgcc tgacacgatg 400

<210> 21544  
 <211> 377  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21544

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aaatatttta aaaatacacg ggggtattttt gcctttttcac gtaggggtgct ggggtgcacct 180  
agcaacaccc ctcgaccatg gaaggccatg aaaggagaga tgtacagaaa ccttatcaga 240  
gcttaacttc ccatccaaaa aagaagattg gttattatta caagggactc acataattag 300  
aattaaagtg ggtctcaacc aattttcatg ctgattttga ggattttttt caattttcgg 360  
ttgttcataa accacac 377

<210> 21545

<211> 419

<212> DNA

<213> Glycine max

<400> 21545

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agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctac 120  
acataccttt ctaatagcta agctcacctc cttgagatga gaagctagaa cttagctaca 180  
caccctata atagctaagc tcaccccat gacaaaatac atgaaaatac aaaaaaaaaa 240  
tcctactac aaagactact caaaatgcct cgaaatacaa ggctaaaacc ctatactact 300  
agaatggcca aaatacaagg cccaaaggaa ggaaaaatct attctaatat ttacaaagat 360  
aagcgggctc atacttagcc catgggctcg aaatctaccc taaggctcat gagaaccct 419

<210> 21546

<211> 385

<212> DNA

<213> Glycine max

<400> 21546

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aggtagtgaa taggtctcta tccacccttt taagggtctt tttgaaaggc aaccataagt 120  
cttgggatga gtatcttct catgtagaat ttgcctacaa taggggggtt catagaacca 180





<210> 21549  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 21549

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 ttagaatccg tgatgattct gagctcccat gtagttcacc tgcttagaag aatttacttg 120  
 ggttatgcat tgctctggct cgcgtgctcc accgtacatg tggcatcccc ctatttgcac 180  
 gattgaagag tgagaggaac ttaccgctta tagtttttta gggagcttgt tgaggatctc 240  
 tgtgagggcc tctatctgtc ggaccaatag cttgttttgg gccaatgttg catcttgggt 300  
 tgtgagttcc agaaggctcc tctttgctgg catgtatgct cgaccatgaa ggatggcgtg 360  
 atcattggcc accatgttct ctatcagctc cattgcctac tccagtgtct tcagcttgaa 420  
 tttc 424

<210> 21550  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 21550

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 cattaacaaa ataaccgaat attataaatc ttatgtacag gatcttttat tcattcaacc 180  
 tgctaggata acataaagaa gctgtgacat tatggcattg gactgcaacg acactacatc 240  
 aagatgctat gaccacataa caaacactag agagatccta cagttaagcg caattagaga 300  
 ttaaagatct agcgatgtta tttagaacta gcatgtctag taagagtcaa tactgattaa 360  
 accaatacta accttacat 379

<210> 21551  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 21551

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aactatcaaa gcttaaccac caagcagaaa ctatacctca aagtttaacc actcgataaa 120  
agcaacgagg ctttaaccatt aagagcagaa acaaaacaac gattcaatgc ttaaccatcc 180  
atgtcaaaaa cttaaacaat gtttaatcac cgcggacaga agcttaccag gacttttcac 240  
aaacattttg tgaatcaaca ataatacaag cttaatcact catgatagaa gctaacaat 300  
gaacaatgct taaccaccac acatgacaga agctaaaatc atcagaacaa gtcgaaaaac 360  
tttagaagta tttaatacaa caccttgtag acaaacaaaa tctgaacact agacatgaag 420  
aaacttacac aa 432

<210> 21552  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 21552  
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acattacatt aacttctaca taggggaaag aaatataatt tgcataaat actacaacta 120  
agtaatgcta attttgtgac aaggacacgt cgtcttccat ttccattaaa tgtttactaa 180  
aaacaactaa gatttctatt gacccaaatt ttttccagta gttagactgc actaacacct 240  
ttagcacgtc atcgttggtt ttcagttcaa taattctgaa ttgataatt ttatctgaat 300  
actcatagtg gcttggttgt cgaaaaaaca atcgccttac cgtttgtgtc tcatgaatac 360  
cat 363

<210> 21553  
<211> 287  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21553  
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gcgggccaca tacgcaatgc gcgcataatc ccaccatacg ctggagctca cctacacata 120  
ccctactgat ctccacata tccatctac taggaaatgt taaaactgag cccccacccc 180

tataatagct aagctcacc ccatgacata atacatgaaa acaccaaaaa aaaatcccta 240  
ctaccaagac tactcaaaat gccctcgaat acgaggctca aacccta 287

<210> 21554  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 21554

agcttcataa gcaactatttg agccttatgt gaatctcaac ccctaagacc caatgtctca 60  
acagctgcac actacgactt ttcacacagc tttgctgggc aacgccttcg tcattagccc 120  
ttttcaagac attggcaacc aactttgata ggccgtaatt aaagcagggc caaggatgac 180  
tgcaattaag gtagctttcc aacaaacaac atctatatca aggaatcatg caccatcaca 240  
aattcaaagtg gctcttaaca tactttctgc atcatcataa gaaataaact ctctaaaaga 300  
gggtgaacat tcatcataat atcatcccat ataaaattca gccacacaaa acacataata 360  
gtttcatacc at 372

<210> 21555  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21555

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aatctaggac ttgcttcaat caccctgaa gtcgtgggtt caggttatca aagcaagata 120  
cttgaatcac ttctccgtcc taatgatacc tccaagtaaa ggggcctcgt atgtttggca 180  
taatataatta aaagctcggg atcatctttg tagtggcttt atgcctcatt tgggtgatga 240  
aagctcacc ctatggaact caaattgatc aggtttgggt gcactgagcc agtttgtgtt 300  
gtacgtccac atcatggaca accattgtac tgtctttgac ttatgacaga atgtaacttg 360  
gcaatttact aaccgacgca ctgaaatacc aacgtaaatt gttgcttgga ttagtgagat 420  
tgatt 425

<210> 21556  
<211> 377

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21556

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 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcaaaggc ctatatatat 120  
 gtgacttgag acacgaattt gcgaagagtt tttcaaaaca aaaaagtctt atcctcttat 180  
 aaagcaaaat tgttttatcc tcttaciaat tccttggcca aattacttgt gattcaataa 240  
 ggaatttttg agtgctcaaa ttgttcaatc tatctctttc aagagagatt tcttcttttc 300  
 ttcttcttca ttctgaanag ggattaagag accgaggggc tcttggtgtg aaagaattct 360  
 aaacacaaag tgatgtg 377

<210> 21557  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21557

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 ctttgccat aaatagccat cctacgggtg ttttaagggg ttccaagggt cagaagggtga 120  
 gggaattttg aaaagagaga aagaagagga aacaaagtcg aggcattgcc gaattgcaac 180  
 cgcgatcatt cctattttcg ttttcttggt ctgtgttctt cgtgcaaccg tcagttagtt 240  
 tatttttttt gtaattgaat gtgatctatg tacccttagg ggtgcccccc ccccttggt 300  
 attttggtga tattcatttc ctccatctat cattgacgat ctcatnttc ttataaagt 360  
 tcaatcttaa ccgatcacta gtgttgtaaa gttgtcttta aagagattga aagttaataa 420  
 acaa 424

<210> 21558  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <400> 21558

agctttatct tcacataagg gtcagatgca ccaagaagat ctttcttctt taacttcatt 60

gcttgcagaa cctttacatg taaaattcca acaggcctct tcaaggctct aagattccca 120  
 aaaacattca caagaaaaaa cagaaaagag tcaaggtaat ataccattat attttgacaa 180  
 acatttatag aaacgaagta acatactttg acatatctaa cacttgaact tccaaggttt 240  
 tgggccatag atacatgttt gcaacctgat ctttgataag ctcttgaaaa caacactctt 300  
 taagttagtt taaaagtgat gaatacttca acaaaccaaa accaaaacca atacaagttt 360  
 ggtacaac 368

<210> 21559  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21559

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 ccctaatact aatactggtg accaaatatt ttggcagtgt gtcacattca cattcacatt 120  
 ttgatgatat cctacgttgc cataaagata tctttacatg attaccagtc acgtacgtac 180  
 cgactctgac aaacgtacac tgcaatttgt accgtctaga tattgatctt tgactgcttt 240  
 ctgatgctga ttctcttgtc agcctttttc tagaacaatc aacaatattt tacttctcag 300  
 atttttaata atcgaatatt ctttttggac tgttaagtgt taaccgatgc tcatacatc 360  
 tattgcctct agattaaata ttcatnttt ccaagattac ggctgtgttg catatctcct 420  
 tactag 426

<210> 21560  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 21560

tgcatgctag ctttgagcca aaatcctgac tcaccataaa ccttgaccca ggggtgagaat 60  
 gccaatcctt accctcggaa gcaaaaaaaaa ggagagagag agagagagaa gagaaggaaa 120  
 atttccgatc aaaggaaaaa ggagaaggaa aatttccaat caaaggataa aggaaaggaa 180  
 attcccaatc aaagagtggg ggaaagcaaa aagaaaagaa agaaaattcc caatcaaaga 240

atgggagaaa gaaaaaaga gagaagtcaa aaagaagaaa tctcctgggc agagaaacca 300  
gaagatatgt gccgagaggt ccttggaacca gacaatatct gaacaatata gaattgtcac 360  
caaatgaata aaatagaatg aaaggaaacc acg 393

<210> 21561  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 21561

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acagaagaac atagaccaca gactcttgca gcaggtgtag atttctgatt catggcaagc 120  
tgggttacta ggttgaccaa ggcattaagt tttccctcaa gctttttatt tttagtagat 180  
gaagatgaat ctgtggccac ctcatggact cctctaagga taatagcatc atttcttgca 240  
ctgaattggt gggagttgga agccatcttc tcaatcaaat tcctagcttc agcaggggtc 300  
atatcaccaa gagctccacc attggcagca tcaatcatat tcctatccat gttgttaagt 360  
ccctcataga aatattgaag aacgagttgc tcagaaatct 400

<210> 21562  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 21562

agctttaacc tcacgtccc tcacagtctt tagatttggg agccaatcca atccttgtgt 60  
tcggactctc agccacttat gatagccacc gatgatccca ttactgcttc ccctaagctc 120  
tctgtccttt cttcacgccg catcccatgc cttgcaaact ccttgagta ccctcgatt 180  
gtggtcacta aaaccccgty cgatgaaagg cgtgatgctg tcgtctaata gcgctcctct 240  
catggggtag ccaagctgtc ttatggcgag aacgggatta taattaatac gacccttgt 300  
tcccatcaag ggaacatgtg gacatccttc gcatgaagat agaattctga ttcttc 356

<210> 21563  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 21563

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atggcgccctc ctctctcttc ttctcctttg tcttccgctt catctccatg gtgaaaaatc 120  
accatcaaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180  
gcttccatca caaattccgc accagcatga ttggagtacc gaccttaagt gttaatttgt 240  
gattaggtat ccctgatgtt ttcaatgagt ttagaaattt aggtgtcagt aatccgaaag 300  
taggattgag tagttcatct tatttatcaa tggtatcagt gctacaatac tccttttctg 360  
cattgtgtat caatgataag acaataatct attttgtcaa caatatcttt tttta 414

<210> 21564

<211> 358

<212> DNA

<213> Glycine max

<400> 21564

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gaagtggggc tgaagtagaa gatgcaagga tgccagctat tgggtgcaaag gaagagggag 120  
catcagctgc tctgatcttg gtcttctctg cctctagaaa attaactgtt tggtcattcg 180  
cattccaaca gttccttatg atataagcta agtcaatggc tggccttatg ttttcatagg 240  
aggtaagggc atcagatccc actcccctcg atctgcacaa gggtgtgatt aaagatggga 300  
agcctaagcg agaagagtta gattgagcca ccatgggtcat ttgtccagag atcaaacc 358

<210> 21565

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21565

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acatctcata gggatgaatg actcgggcat actttaagct tatgcacgga aaatgtaatt 120  
atgaaattga gatgcccga gaaacacat ttcctagtta accatgcatt aggtaccatg 180  
ttcaattatt ttgttttgtt gttgtgtgtt ttttttttag aaatggggtt atgatcccaa 240  
catggttggc tcatggtgcc taacacatgc aactaagaat gtagtgtgaa gtttcacgct 300

tcccccttttt tgttttttggt ttgtagagga aaacgcaagg atgagcaaac atgaaaacaa 360  
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<210> 21566  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 21566

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tcgtttttaa ctgattcccc tctctgaatg tatgctttgg ctaataaaat cttcttgtac 120  
tacttcattt cgtgggttoga aagcagacgg gccacaagac cttccaactt ttggcaattc 180  
agattccctt attagctaca acccactacc ctgagcaata tataagcata gcaccagctg 240  
catattctta cagaaccttt ccttcaact aaaaaaata actccttggt cttctgtccc 300  
ttatcattaa tctttctctt ctttatctag ctagcaaagt gcaacattac aatccttctt 360  
aagctcttag ta 372

<210> 21567  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 21567

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ctattcgatc ccacagaggt taatgggttct gtttctcgaa gccattgga tctccttggt 120  
gtcctttttg ggccatctgt ggtatggccc gttttgttgc taaacttaat caagaagaat 180  
aaaaaataat aaaagaatta ttttattcct taataacttt ttggagaaaa aaaaagcac 240  
agttaaaatt tttatatatg taaacctttc attcgatctt acattttttg ttttaaaatg 300  
agtccatgat attaattttt ttttcatttg ttttcagtaa atgccactta tatatatata 360  
tatatatata tatatatata tatatatata tatatagata tatatatatt agtccttcta 420  
aaggttgac 430

<210> 21568  
<211> 373



<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21568

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 gggtagaact aacctagggt tagaaagtga gaatgtgatg ttatgagtgg aaaaagaggg 180  
 aggctttgag ggttggaagg ctaagtctga attctgtggt aaatggaggt taaagtgagt 240  
 taatactagc ttgaaatgtc atttaggact tngngagaaag cttggactgt gctagagaga 300  
 aacaaatgac caaagtgaac aaagagccat ttctagggca atattaggtg ttgaagagtc 360  
 aaattttgat tca 373

<210> 21569  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21569

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 ggagccttac caggatgtcc tttaataaaa aaggatttga aaatattgaa ttattggata 120  
 tttgattaca tactttgatg caatccttcc aaggagatcc atcaccagag ccatgaccag 180  
 gagacttcag gaagattggt ccanagatag gcgagaaggt tttgtctaata gcaggagctt 240  
 taatgtggat accgaccggg tggattgaga ggacgtgatc ttatttttgt ccatccttta 300  
 ttacgattac aggaacattt ggacatgcta tatagggata tataataact 349

<210> 21570  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 21570  
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 tggttttcca aaccttgaaa acttgtgcta ttcattcttt cattctcttc tccctttgcc 120  
 gaaaagaatt cgccaaggac taaccgctg aattcttttt gtgtctctct tctccctttt 180

ccaaaagaac aaaggactaa cgcctgaat tcttttgtgt ctccattctc ccttgtcaaa 240  
gaattcaaaa cgacacagtc tgagaattct tttgattctt cccattccct aatacaaaag 300  
tgttcagagg actaaccgcc taagaattct tttgtatccc caagcatcac ctaagttaat 360  
ttttataata gaagaaacac cccaatt 387

<210> 21571  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 21571

tgttgacata aatttgacag tatgccttta atgttgtgta gtgatctttt gtcatgcatt 60  
tgtactatgt tttgatgaat gcttttccaa attcagtgtg ttgactatca gctacagtgc 120  
aaccatacaa taaccaaatt ttttactatg ctatctgata aagatgattc cttttttgaa 180  
tatgtgcaga aattttgaaa ttttgatatg gtttatttca ctttgccttg ttatcatcaa 240  
atggaatfff gttgttaact tttgcttgct ggactttttt gttgttaatt cacctaaatg 300  
atgtggctta aaccagagag gaagcatttg gacctgttgc acccagagag gaagctatca 360  
gaattactaa tgacactaat gcaggtagtt catttggttc ttctttatac agccttgaag 420  
aatg 424

<210> 21572  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 21572

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gtcagcagag gaacacaaac cacagaccct tgcgacaggt acaaattttt ggttcaaggc 120  
cagctggggt accaagttaa ccaatgcac cagtttgctt tcaagcttct tagtttcaga 180  
tgatgcagct gagttttag ttacctcatg cactcctcta atgactatag catcatttct 240  
ggcactaaac tgctgggagt tggaagccat cttcttaatt aaatttttgg cttcagcagg 300  
agtcattgtc ccaagggtc caccactggc agcatctatc atacttctct ccatattact 360  
gagtccttca taaaaatatt ggaga 385

<210> 21573  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21573

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 acaaacataa aatgatgcat ccactatcat caaattgttt cacatacaca catttatcac 180  
 tattattgat ttgaaaacaa tatgaaagaa caacttgatc aaacttttcg tgccattgct 240  
 ttggagggtg tttcaaacca tataaagatt taacaagttt gcaaaatttc tttcttttac 300  
 ccggttctac aaaaccttca ggttggtca tataaatttc ttcttttaaa tcaccattta 360  
 aaaaaagctg tttttacatc catttgatga attntcaaat taaaaacaca aacaagtta 420  
 attaaaactc t 431

<210> 21574  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 21574

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 atagttggac ctcccagaag agtatagagt cagcaccact ttgaacattg ctgatttaat 120  
 tccttttgca agtggagcta atattgagga ggaggaacta acatattcga ggtcgaatac 180  
 tggttaacggg tggaggtgaa gagccctttc tccgtgacaa gggactagta actatagcta 240  
 tgatcaggat gcgtggagag gactggtcga acattgttga agaatgcct atggttctga 300  
 tgaacggcac ggcacactgt taagcccatg ggcc 334

<210> 21575  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 21575

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 tcaatcaagt tctaaggcaa cagtacattt cccaatgcta aagtcaccta actatgaaca 180  
 caaatgggtg atcagaccaa aagcatacaa acattagcat tgaaggaagc attgaacaca 240  
 gaaaacataa tcaattagat attaggtatt tacatcagtt gttcattaga aatccccaac 300  
 taggggtgtt agccagccat taaaagaaa cccaacaat aaatgagatt aaaagcagag 360  
 aatgatagtt ccttacataa gaagggggat tctctctct cttcttagca tctcacactc 420  
 actctctaata ta 432

<210> 21576  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21576

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 gatacaaata tatacaaata ctccccattc ttttaagctct cttgatttct aagttcttta 120  
 attcttctcc ccctttggca acatcaaaaa gccaaagtgc ggggaaattt aagacatcta 180  
 actcaagcaa tcagtaaaca cgaatgtttc aattagctaa tcaatcttta tttatccaaa 240  
 tcactaacat ctaagagacc taattctctc ttaatggcaa agaatgtttc cttaaggaga 300  
 agctntgtaa agatatcagc aagctgatgc tttgtatcaa caaattctag aacacaatct 360  
 cccttcagaa catg 374

<210> 21577  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 21577

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 aagtgttgta acattgtcag tttactggac aaaggaaact tgagctaatt gagtgaatct 120  
 taactctact aagttagcaa gtttcattat attcgagctt actatgtaaa aactcattga 180  
 gtgattagaa tatattttct atcaaacata tattgtttgt caaagccagg agtggcttgg 240

tgacaaagaa tacttgggtt ttaatctcac ggggagatta agtgtagtgc taagagtggc 300  
ctagagagta cttattgtac gctgtaatgg catagagaat acttcgttgt aatcaaagat 360  
ttgattaatg gaacccttca aggtttaaag gagaactgga tgttggttaga gataa 415

<210> 21578  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 21578

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atatatcgag acgctccaaa ttgactactg aaactctgat aaaattcaaa cgacaataac 120  
tttctactgg aatgcccagc agagggctctg aattgatcga gggatgctgc aaattgaaaa 180  
cggaagctcg taccaaattc aaacgacggg aactgtttac tacgatgtct gattgagacc 240  
cgtaatatat cgagacgctt aaaatttata tccgaagctg tgataaaata gacttgacaa 300  
taactttata catggatgtc ctgttgagcc ctgtaatgta tcgagacgct g 351

<210> 21579  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21579

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actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctatg 120  
tcctttcttc acaccgcac acatgccttg cgaactcctt ggagtacctt tgcattgggg 180  
tcactgaaac cccgtgtaat gaaaggcgtg atgctttcgt ctaatggcgc tcctctcatg 240  
gggtagccaa gctggcttat ggtgaggaca agattataat ttatacaacc cttgttcccc 300  
attaaggga ctttggaaa tccttcgcat gaagatagaa tcctgattct tccttccttc 360  
tagtgaggga accaattaac agacgccctt ccagcttagc caagagttag tcccaattca 420  
tctttct 427

<210> 21580

[illegible]

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aatcttcaact	atcaatctaa	ataaatgagc	tatccgtggg	ccattaatgc	tgagcttgta	120
atgcttgaac	tcgactcatt	taaataattg	agcctatttc	caagcttcac	tttgtttatt	180
taattaaaca	aatgagcttg	attgagcatt	taacaagttg	agtttgaata	gatcaagaat	240
agctaagctc	atttacatcc	ctaaatctat	tctatttcgg	aatctaaggt	gcttatgtgg	300
cttagcccaa	gagcatggta	aatgtacatc	atatgtggca	ctaactttat	tagtt	355

<400> 21581

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cagatccctc	cgттаатgac	tactagagag	aatggtacga	tctcaaacat	gcaacccgtc	180
aaaattctcg	tgctatcggt	tacgaggatg	tcacccatgc	tatactgaga	tcacatgtaa	240
gctctggagc	ttgtcttaac	gcggggagtac	taaaacctaa	tgcaagggtaa	agcactgctc	300
gtccttctta	tcacgacatg	ctaaaagccg	tggttacatc	catgcgatga	atgccctatt	360
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<223>      unsure at all n locations
<400>      21582
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9048

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 ctgntgttaa gtgtccctaa tgactcatca gggtttccaa gtttatgcca ttattgtaaa 360  
 ccacatctac aatgt 375

<210> 21583  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 21583

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 cagggcatag gcagaaaact gtgccaaaac accaaccaaa tcacagcttt tctcacttaa 120  
 agaccccagt gacaattctt tcgatccaat tcggtaaccg ttggatcgac tccaaaatac 180  
 tactggaggt ctatagtaca ttatgtaca ttgtgaccga tgggatctac tagcgaacat 240  
 gcagaacgca ttttacatta ctctatccac aaccagcaaa tacatggatt tttctgcact 300  
 ggtgcaaaat tctgctgcg aatcttacag caaaatctgc acaaagagca tatttcgaaa 360  
 accacagctt cctcatcta atcttgccca aatcaaatcc tacaagtccc aaatcatgta 420  
 tcaatcatg 429

<210> 21584  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 21584

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 gactatggca tcatttctgg cactaaactg ctgggagtcg gaagccatct tctcaatcaa 120  
 gtttctggct tcagcaggag tcatgtctct aagggtcca ccaactggcag catctatcat 180  
 acttctctcc atattactga gtccttcata aaaatattgg agaagaagct actctgaaat 240  
 ctgatggatga gggcaacttg cacatagttt tttaaatctc tctcagtatt catataggct 300  
 ctctccactg agtagtctaa tacctgagat atccttctctg atggtcgcgg tcctggaagc 360  
 acggaaatta ttttctaag 379

<210> 21585  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21585

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 attgtattta tgcaattttg gcacctcata ttcaaattat gtgagttagg tcttcttgta 120  
 ttataagtgt gtgttttttc tccttcgatt agtcagtcac aaatatttaa tatattttgt 180  
 caacgtgata ctagatgatc acatataaat ctcagagaa ttgatgaatt acttgacatg 240  
 tatattgttg tgacttaatt acacttttgg tctctttgtt gttccaatat gaagtaccaa 300  
 aagaacaaat aagctctgtt agtatatatt agttattgac cagaggataa accatttgtt 360  
 tgtgtagtta taggatgatt gtgcattaca taatataatt ctataacaaa caatattcat 420  
 attttt 426

<210> 21586  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21586

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 ttaatgtaca tgtgatattt ccaagttcat tgaccaaga cataaaaaat agctattaaa 180  
 tgcttaatta tagaaatcga accaatttga tccggacctt gtgtcctaag tgtaggatga 240  
 gaaatataat caacctcgtt tgatcatact ggaatgacta ttaaatacat agttatacaa 300  
 atcggatcaa tttgtttggg acctagtgtc ctaagtgatt cgattaatgt gaatgata 358

<210> 21587  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21587



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aacgtgattg gggaacggaa gaaggtgcac gtgaacgatg tgggagagtg gaaagggttt 120  
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tcatcacgag ggcagagtag tgatattaag atgttggttt caacacacag gtctgggact 240  
gctgctgac aagtttctgc ttttgctgcg cttgtggggg atcatccaat tgccaatttg 300  
cgttctcttg atgctcttcc gggtagtat agttctctg ttactgcgtg cgtgcgttgt 360  
ttcttctt c 371

<210> 21588  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 21588

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caggatgttc aaaatcacca ataacagaat acacatattc accagtaatg gaatgctcag 180  
aatgatcaaa aggtataaaa tgatgcctaa ctaatatatg aaatgtccta tctatctcag 240  
gatcaaaggg ttgtaagtca gatggattgc ctctagtcac acactacatt cagcatgcac 300  
acaactagtt gccttatcat gtaaataaag gtgtaagttt gaactacagc tacccttaaa 360  
tgata 365

<210> 21589  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 21589

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gttttactct agacaaaatt tgcaacaact ttttcgttgg agtccttctg aaatgaggtc 180  
aaattaaggc atatttctgg catgcaagac gattgcctta ttttgcaat taggtctagc 240  
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tttattaaac tagagaaaaa atgattttta accatgtata ttagtaaaat tacagagggt 360  
atcttcaaac tttaaagggg aaggcaaaac agagtgattg ctagaaggag ctctt 415

<210> 21590  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21590

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gcatgaataa tgatgcgctt agtgtgagac ttgcgcttag cgaaaggagt atttttttat 180  
aaaatatttt ctgagttatt ttccagtcct tttccaaga aattgaaacc cttatgttta 240  
acattcaaag ataggctaata atactcctat gtacagatta tgcagcaagt tcccaatgat 300  
ctaattgcatg aaaacaaaaa ctacagaaat taaaactggg ttgcctccca ngaagcgctt 360  
ctttaacgtc attagcttgg acaattt 387

<210> 21591  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 21591

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tagcctcagc aggagtcata tcaccaagag ctccaccact ggcagcatca atcatactcc 180  
tctccatggt gctaagtccc tcatagaaat attgcagaag gagttgctca gaaatctggt 240  
ggtgaggaca gcttgacac aattttctga atctttccca gtactcatac aagctctttc 300  
cactaagttg cctgatgcct gaaatgtctt ttctgatggc agtggctcta gatgcaggga 360  
agaatttctc caagaacacc cttttaaggt catcccaact ggtaatggat ctgggagcaa 420  
ggtagtaciaa 430

<210> 21592  
<211> 381

<212> DNA  
<213> Glycine max

<400> 21592

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ctagttaggt taccagggtta accaagacat ctagttaggt ttcaagcttc ttagtctcac 180  
ctgatgaatt tgtggctact tcatgcattc ctctaataac aatagcatca cttctggcac 240  
taaattgttg ggagtttgaa gccatcttct cgattaaatt tctggcttca gcaggggtca 300  
tgtctccaag ggctccacca ctggcagcat ctatcatact tctctccatg ttgctgagtc 360  
cttcataaaa atattggaga a 381

<210> 21593  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 21593

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cctccctaca ccagccttcc gatttaccca gacacccgaa ttggctctta ttgtagttta 180  
tcttttagacc agaaaccaat tcaaagcatt tcaggatata ctgtaaaact ctaacattat 240  
cattagcggc agccccagag aacaagggtg cgaatgcata atactgtata ttaacttctt 300  
ctattttctt tcccacttga tagttgctga agagatcttt tgctactgct gatctcatca 360  
acccggttaag gccttcact actatattga atagcaaagg tgcaagggtga tcaccttgcc 420  
ttaagcctct 430

<210> 21594  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 21594

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tcctgggtatc tgagattcac ttaaaattag tgagaaaaat tgcttccgtg aagaaaatcc 120

aagccgaggg gcttccgtaa cgatgccgtg ggtgatttcg cgaagatttg caaccgttct 180  
 tcgtcattct tcgtgcgttc ttcacgttc ttcagtcctc aaccggtaag ctctgaaat 240  
 cgaacttttc aatacatcct atgtaccctt agtggctctc atttgattca cgtgctttta 300  
 tttccatttc attcactttc cgtactccct tgtgacgtgc tttagtcatt gattgaagtc 360  
 attttctcgc ctaataaaaa ataaaata 388

<210> 21595  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <400> 21595

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 cgtctctctc ctttttcttt gctccacctg cccaagcct cctattgcta gaactcgtca 180  
 aagcagcata atcaaatttt ccccttaggc ccacctcgat cctctcgcct gcaaactacta 240  
 gacctgcaaa actcaaaggc atgtatccca ccatcttctc atagtagtac acaggtaatg 300  
 tgtctactat cattgttacc atttcccttt acatgattgg ggggtactac ttaacccaac 360  
 aaatccctcc atctctagga gtattctctg aaagattcct actccctttt acacatgtgt 420  
 ctgcag 426

<210> 21596  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <400> 21596

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 ctattgtaat tgaaaactag acatgtattg atgtaaatct aattatgtat gcatgtacat 120  
 gttatatgat agatgtagct tcataatgga aaaacatttt ggtgggttgat atgttggtca 180  
 ttttcttggg gtaagttgcc actattataa gaaaaagcgg cacaaccact aaacagggaa 240  
 gcatcacttt ccaatagcat atggcagaaa taaaaactcc aacaatggaa gttgcacaac 300  
 ttgagttgaa gtgacctaaa tgtgagtacg aaaggtgatt gaggaaggt gaaactcgta 360

<210> 21597  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 21597

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 actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctctg 120  
 tcctttcttc atgctgcac ccattgccttg cgaactactt ggagtaccct tgcgtagtag 180  
 aactgaaac ccggtgcgat gaaaggcgtg atgctttcat ctgatggcac tcctctcatg 240  
 gggtaaccat gctgtcttat ggcgaggacg ggattataac taatacaacc gctgtgtccc 300  
 aacaagggaa cattaggaca tccttcgcat gaagataaaa tcctgattct tgcttccttc 360  
 tagcgaggga accaattaac tgacgccct ccattg 395

<210> 21598  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 21598

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 ggatctaata aaaatatggc tgatgacttg ctattcagg ttgcagttta tgctttaatg 120  
 aaagctgcac ttgatttga gatattgctt tcacatgaac ggctaaatga attttcccct 180  
 gttaaaaaga tgtaagcttt tacccttttc tcttgcatc ttataacata attttgggac 240  
 attgcttttc ttatctatag taacattgac atatatatgc aagatgtaac gagttaggct 300  
 ttatcaacc ctataattgg aagaaatagt tgtgcatcat attatattat atttactact 360  
 tccacttgat ccttacaagt aatgact 387

<210> 21599  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 21599

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 tgagtttctt cttaaaaccc attacaaatt tatctacatc caataaattc atagtttact 120  
 gtcaaaacta cttttgtttt tatctctaga ggatgttttt tctctgctga aatatgtgca 180  
 tccaaactgt tcttccctt tcataatcat tgaaagctaa agcatcgtga ttcattttat 240  
 gcttggattt gcgctcttct tgtcctgggt ttcctatgca gctgttttac aatgctaatt 300  
 gtttgcgtaa gtttgaatgg caagtgcga tgatgcagta tacattgcaa tgatattaca 360  
 cgctcgggca agaaacatta ttcataatgt gaggtgca 398

<210> 21600  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 21600

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 agggaatgat ggtgttcccta gacaaaaccg aattgatggt attaaactca acattcctcc 180  
 atttaaagga aagaatgatc cggaggccta cttggagtgg gagatgaaaa tagagcatgt 240  
 tttctcatgc cacagctatg acgaggacca gaacgtgaag cttgccgcca cggagttttc 300  
 cgactatgct cttgtgtggc ggaacaagct acaaatagag agagcaagaa tgaagagcct 360  
 tggttgatca tgga 374

<210> 21601  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21601

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 gttttgttta ctttttatac cccctgttga cgtgcttaag ccattttact taagtccttt 120  
 ctcgcttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccatta 180  
 acttcgggta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240

agaggtaaaa aaaataatat aataataatc aaaaaacatc ctttagtaaa ataaagcgga 300  
 aaatcaatcg gacatttttt ctttgggatt tctcattctt aatcgaattg attaataact 360  
 aaagtgaac taaggctaaa atcaactcgc ctagtcaagc tc 402

<210> 21602  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21602

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 ccggactctc atccacttat gatagcgacc gatgatccca ttactgcttc ccctaagctc 120  
 tctgtccttt cttcatgccc catcccgctc cttgcgaact ccttggagta ccttagcatt 180  
 ggggtcactg aaaccccgctg taatgaaagg cgtgatgctt tcgtctaatt gcgctcctcg 240  
 tatggggtag ccaagctgtc ttatggcgag gacgggatta taatgaatac aaccccatgt 300  
 tcccatccag ggaacattng gatatccttc gcatgaagat acaatcctga ttcttccttc 360  
 ttctagcg 368

<210> 21603  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21603

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 gttttccacc atggagatgc agcggaagac aaaggagaag aggggagagg aggcgccatc 120  
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180  
 gcttggaagg atgcttcaat ggaggaaaag aaagaggag agaaagagag aggggggagc 240  
 acgaaattga aggaataaag gagggagaga agtggaactt tgaaagatgt ctcaagac 300  
 tctcattcat catagttaca acaagtgtta cacatgcttc tatttataga ctangtagct 360  
 tccttgagaa gctntcttga gaaaacttcc ttgagaagct tctttgagaa aacttcctta 420  
 agaagctag 429

<210> 21604  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 21604

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 tataacgaga tgctcgaagt taaatgttta agctctgagc caattcaaac gacaataact 120  
 ttttactcgg atgtctgatt gagtctgtgc atatatcgag acactcgaaa ttgaatgttg 180  
 aagctctgag ccaattcaaa cgacaataac tttttactcg gatgtgtgat tgagtcccg 240  
 catatatcga gacgctcaaa attgaatgtt gaagctctga gccaatcaaa acgacaataa 300  
 ctttttactc ggatgtctga ttgagtcttg taatatatcg agacgctcga aattgaatgt 360  
 tgaacctctg a 371

<210> 21605  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 21605

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 aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120  
 atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180  
 cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240  
 caaagttatt gtcgtttgaa tttgctcaga gtttcaacat tcaatttcga gcgtctcggt 300  
 atatcacggg actcaatcag acatccgagt ataaagttat tgctgtttga attgtctcag 360  
 accttcaaca ttcaattttg agcgtctcga tatatgacgg gactcaatct tacatccgag 420  
 taaaa 425

<210> 21606  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21606



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atgcattgag tcccaatgta atttgtctat gtgtgagtga actctctaca aggttcactc 120  
ttagtacaca tatcccaagg gagtttagca cactaatcta gaaagttatc atactaatct 180  
agaagatcag aataagattt accagtttta gcaaaaacag tttttatcat tttttggaaa 240  
aatttgactn tatectttta tagttagttt tggaaaagtg taagaagtca tataaggcat 300  
ggctgagctt gtggagagca cctcaaggga tatccaagct atcaattagt catattaatg 360  
gttattcaaa gtgctta 377

<210> 21607  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21607

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tgacttgagt tccttcaact gctgtggggg gaggcattggc aggcctcccg atgggaggat 180  
acggtgctac cttcaggctc tctatataga attatcgtgc ttgcttttgg ttagccttga 240  
cagttacaat ctcccttgtc agtgtaggga atttcatttt caaatggggg gtggagacta 300  
tggcttcaag cttgtcaagt gtctttctgt tgattaaggc aaagtatgat gtgtctgcgt 360  
taaccagtag atatctgaag ctctagaaa acttaccctg atcgaagggt gtcacatcaagt 420  
ccac 424

<210> 21608  
<211> 376  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21608

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gggatgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaattttatg 120  
caaaactggt catgcatgca cctatgtgga cactcaagtg tcaaattttt atgggtcatgt 180

gatgctaggg ctgangattc atttcctcta ttttaaatac acccaatggt tccaaaatat 240  
 gttcttttat caatttgtgc attcatccga gtccatttcg ggcgtccggg gaaaacttca 300  
 cagcattcac ccttcaggtg tatacacatt cttttcaaaa actagttatg atcaatgaat 360  
 tcttttcaaa gaaaag 376

<210> 21609  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21609

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 tcttaagaag ggggggttga attaagatat tccaaactgt ttcccctaataaaaaatcta 120  
 tttttctttt tacttaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180  
 aatgaagcaa cttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag 240  
 aaaatgcaaa ctcagtttta tactgggttcg gccacacct tgtgcctacg tccagtcctc 300  
 aagcaaccg cttgagagtt acactaactn gtaaattcct ttacaagtt ctaaacacac 360  
 aaggacaacc cttcctttgt gtttagagat cttttacaac aagagactca cagtctctta 420  
 atccctt 427

<210> 21610  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 21610

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 tgggtacctg agatatgtcg cgggggtcag gagaccttg ggacgtcagg tggggtgcta 120  
 ttgccccaaa ccaagcttga ccaatccga cccaaccg gcatagtcg tcaagtgagaa 180  
 cctgtgatgt acctaatacat gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240  
 caciaagcaa ggaggcttgt ggtggctggc cagctgtgaa ttctgtataa tatgtggatt 300  
 gtggcctctg gtaatcgatt actgaggggtg ggtaatcgat ta 342

<210> 21611  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21611

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 ctaattttgt gtttttaatt taattttagg agaattttta gcaattgggc ttgaatctgg 120  
 aattgggctt gaacttgaag agagcagaca attttatttt atcaaattctt atcttatcta 180  
 gattttattt catccaatct tatcttatct tgtccagatt ttatttcata caatcttata 240  
 ttatcttgct cagattttat tttatttcgt ttatgggctt ggacttaaaa cagatttgta 300  
 agctttgggg ctgagaacct atataacagc accaagggtt tagttttagg gagttttcga 360  
 agaggagaat aattctagga ttttagaatt ccagttgtta ctgttcatgc gcactgt 417

<210> 21612  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 21612

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 caaaagccat aaatactaca tatgaaatgt ggattattat atctatctat cttttaaaaa 120  
 atttaaatta ttttaattaaa tttgatttta gaaggacta tcgaaataaa atagttccgg 180  
 gtagttagca ttatcttggc aaatcatcaa tgatgatgct ttttatgtca ctctcataaa 240  
 cgaaccactt tggctacttg gctacttggc cacttagcca atagccatca ctgaattcaa 300  
 aagattgatg tcagcaatcg tacagctttg aaatgcatat gctcgtctta atcttaaaac 360  
 tgaatacaaa gcctc 375

<210> 21613  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 21613

tcgaggaatc ccatgtattt taaccaccat gtcgactatc aaggatgccca ccatatgagc 60

agtgtgagac gttggttaaca ttcccagatg aatcccccttc gaaaaacggt ccaccaccac 120  
 gagaattgtg gtttttcgtg atacgccggc aggccgacaa tgaaatctaa cgagaggtcc 180  
 tcccaaggtc gatggggcac cggtaagggg cataatagtc ctgcgacgcg ttgtgtctgg 240  
 tacttagtga cctgacaatc catgcaattt gccacaaatt gcttgacatc ttctctgaga 300  
 ccgggtccaag tgaagttctc tgaaattcga gctaattgtct ttgtgattcc ggcgtgaccc 360  
 cctgttggag tcgtgtggta ttctgaagt aatg 394

<210> 21614  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 21614

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 ctgttcactc ggatgtccga ttcaggcaca taatatatcg agacgcccg aattgaacaa 180  
 cggaagcttt tgagaaattc aaatgggtcat ttctttacac tcggaggtcc gatcaggcgc 240  
 atcacatata gagacgctcg aaattgaaca acggaagctc ttgagaaatt caaatgggca 300  
 ttacttttca cttggaggtg cgaattatgc gtataatata tcgagacgct cgaaattgat 360  
 a 361

<210> 21615  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 21615

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 gattgacttg cctagtgagt ataattgtaag tgccactttc aatgtgtctg gtctatctct 120  
 ttttgatgca gatggaggag ccttggattt gaggacaaat ccttttcaag aaggagggag 180  
 tgatgaggac atttgataaa atttggtgag agtttctctc tgggttcctt gttgaaccaa 240  
 ttatcagact tatcaaggta atccttgtgg cgtctaccca gacttatctt ccttcattgg 300  
 aagtggcgtc taccgggact tatcttcctt caccggaagt ggcgtctacc cagacttatc 360

ttccttcact ggaagtggcg tctaccctga cttatcttcc ttcactggaa gtggcgatcat 420  
ccaaatcttc g 431

<210> 21616  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21616

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atatatgcgc agtgataaaa atgaacatca gatacgttta tcacagagtc gttcccaaga 120  
agttactggg ctgactttat gtttgtgttt tccccggat aattttctgat tgcagcagaa 180  
acacaacaaa gataccaacg gaattaatca catcagaatc acctctacac aaatatataa 240  
tcccagcaga aacaaaatcc gtagctgtta tattgtttga gcccctaaac aagttagctt 300  
aaagtagttt aaatatattt ctggctttat ttgtgtaatt ntaatttaat tctacatggc 360  
actgtggcat ttgatttctc ccttgc 386

<210> 21617  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21617

ntaacaagca atagatacat aatcaagtca tagcagttgt gtatgatatg acatttaata 60  
taaaactgat tttgtgtata tgccattatg aataataact ttctgaagac aatcaaacia 120  
aaagcaactc tgaatgtaaa ctagagaaac tagagagttt aggcattacc atggaaggaa 180  
gcgcattcat atgtcaccat cccagttgc acaacatgca ccaacttcat caatggcata 240  
tgctgaggat ccagcaatgg gaccatctcc tactctgtaa tcaatgaaaa agattcaaag 300  
aaaacctaata tataaaatgc atcaatagaa catacaaagg atgattgata gatgctgcat 360  
taacaatgtg tgggtgtatat ctgagcatat gtacttggga attgataagg caatttgtga 420  
acggctaaat 430

<210> 21618  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 21618

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 atatattacg ggattcattc agacatccga gtaaaaaatt attgtcgta gaatttgata 180  
 cgagcttccg ttttcaattt ggagcatctc tcgctaaatt gcgataggct atcgggcatc 240  
 cgagaaaaaa gttattgacg tttcataatt ctaagagttg acgctttcaa tttggagcgt 300  
 ctcaatatat tacgggactc aaccggacat ccgagtataa aggtattgtc atttcaattt 360  
 gctcagagct tctagtctca aatgtgagc 389

<210> 21619  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21619

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 atcgagatgc tcaaaattga gactagaagc tctgagcaaa tttaaattgac aataacttta 120  
 tacacagata tccggttgag tcccgtgaaga tatcgagacg ctcaaaatatt agatccgaag 180  
 ctctgagaaa attgaattga caataacttt atacacggat gtccggatga gtcctgtaat 240  
 atatcgagac gctgcaaatt gaaaacggaa gctcgtagga aattcaaacg acaataactc 300  
 tttactcgga tgtgcgattg aatcgggtaa tatatcgaga cgatctaaat tgagactaga 360  
 agctctgagc acatggagat gacaataact ttatacagg atg 403

<210> 21620  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21620

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 catccattaa ggaataagcc atggaagaag gagcttgacc accaagataa gccttgata 180  
 acaagcttgg agaggatgct tcaatggagg ataagaaaga gggagagaaa gagggagggg 240  
 ggagcacaaa attgaaggaa gaaaaagga gagaagtga actttgagtt gtgtctcaca 300  
 agactctcat tcatccaagt tacaacaagt gttacacatg cttgtattta tagactangt 360  
 agcttccttg agaagattct tga 383

<210> 21621  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 21621

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 ctgatgaaag tgttcctcaa ggggttaaag gaagagatta gcactgaggt aaagcttcat 180  
 gaaccaaaga acttgattaa agcaatgggt aaggctcata gagtggagga taagaacaga 240  
 gttttagggg agttaccctt gagtaatagc caggggtata atctgcagaa acctagttat 300  
 tccggtcaaa aatttgtaag ggagtgcga ccaacaaata gtaaggtagt tgatcctact 360  
 aatgctgcta aaacaagatc cgatggatgg caaggtagaa gaaccttcca taatttgtca 420  
 cccgcgga 428

<210> 21622  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 21622

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 aaccactgtt cttccttccc acgatgcttc tttcatgtc cgcttgagtg ggcttatagc 120  
 ctaagccata cttccacga tttccttggg tttttatcaa gctagttatg tcgccgttgt 180  
 ctttgcttaa acccatcccg gggtcataac cgttcccaa cataactcgg gccatcatta 240  
 ccgctgcac ggacagacaa ggctgcccaa agaggagtc cacggaggaa atgctgacca 300

cctcaaaaga ctggaaagca gtttctaacg attcttctgt ggcttccaca taaggcatgg 360  
aggatgggca gcttaccaag atatct 386

<210> 21623  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21623

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gcataatcat ttggaaaagt agagaaactg tatatgctca tacacctttc tctactccct 180  
tagatttact atagttgatg ggtcttctat gtacatccaa tgttgttctt cattngatc 240  
actctaagtc tgacgtgtga aaatgcaagt aaccactaa aagggggaga ggggttgaat 300  
aatgtgtata tcanagataa caactttttg cgatacaaga atagtatgga taatacaaaag 360

<210> 21624  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 21624

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cgctccttgt cacgggaagc cggaaggctc atatcacctt cttaattgta cacatggggc 120  
actgcgcccc caaatgcgag agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180  
atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacatatcct 240  
gcatttgtcc gttatcatat tccagctca ctttttgcac gagtcatggc atcatcatgc 300  
atatgcgtcc aacaaacttt ttgate 326

<210> 21625  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 21625



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aagagttagg	tctagccacg	gcccacgagc	atagaatcgc	ggatgagtat	gctcaagtat	120
atgcggaaaa	agaggctaga	ggaaggggtga	tcgactcttt	acaccaagag	gcaaccatgt	180
ggatggagcg	gtttgctctt	accttgaacg	ggagtcaaga	acttccccga	ttgttagcca	240
aggccaaggc	gatggcagac	acctactcca	ccccgaaga	gattcacggg	cttctcggct	300
attgtcagca	tatgatagac	ttaatggccc	acataattag	aaatcgttag	gaaacttgta	360
tggtctctca	gaccttgact	agatatgact	tcctttctga	aataaaatga	gttggtccca	420
ggttttct						427

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394

<210> 21628  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21628

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accagaggg aagctcccca agttccaact ccgaacatga ctcgaccggc cggtaattcc 120  
aacacgacaa ggaacttccc tccgaggcca ttgccggaat tcaccccgct cccaatgacg 180  
tacgaagatc ttctaccatc cctcatcgcc aatcatttgg ccgtggtaac tcccggaagg 240  
gtcctcgaac cccctttccc gaagtgggtat gaccctaata caacttgcaa gtaccatggg 300  
gggtgtcccg ngcattctgt cgaanaatgc ttggccctta aatacaaggg tccaacatta 360  
atggatgccg gat 373

<210> 21629  
<211> 419  
<212> DNA  
<213> Glycine max  
<400> 21629

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ttatctttca atcttttttc atcatctctc aacatctttg aactctttct acagaatttt 120  
ctgattcatt tctcttcac tttcttaaag tttttgttca atactttttc tttgaagaaa 180  
agttctttga tcaaaaactt gtgttattca tctttttcat tctcttctcc ctttgccaaa 240  
agaacagaag gactaaccgc ctaaattctt ttgtgtctct cttctccctt ttccaaaaga 300  
atagaaggac taaccacctg aattcttttg tgtctctctt ctcccttaca aaagattcac 360  
aggactaacc gcctaagaat tcttttgatt cttccctttc ccttaagcaa aagatttca 419

<210> 21630  
<211> 334  
<212> DNA  
<213> Glycine max  
<400> 21630

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 tttgataatg ctgattgcat gaatgggaag cctgtggcat atggagagaa tgagaagaag 120  
 gaggaacca tgctatgact atcattccca catggccaaa tttcccacca tatcagcaat 180  
 accgatactc agccaatatt aacccttctc attaccacc accctatcag ccaagaacac 240  
 ccaatcgtec acaaaggcca cccctaaatc agccactaag cctgcctgac acacatctaa 300  
 taccaaacgc cacctttaac acaaaccata acac 334

<210> 21631  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21631

tttcgcaaag cttacggtaa aatctgggat ctagccttgg tattagtctt cacataggcc 60  
 attgcctccc tcaccagta ttatgatcag ccgtagaggt gcttcacctt tggggacttc 120  
 tagctatcac ccatggagga agaatttgaa gagatcctag gatgccctct aggggggagg 180  
 aaaccatacc tcttcacagg gttctatccc ttattagcta gaatttccaa gatagtccaa 240  
 atctcagcgc aggaattaga gcacaggaag caagtcgaaa atggggtggt tggaataccg 300  
 agaaaatatt tggaggcaaa agcaagaatc ttggcaggta aaggcgagtg ggccccgttc 360  
 atagatatcc tcgcactggt gattntcgga ggagtcctct ntctgaatgt ggatggggtg 420  
 gtg 423

<210> 21632  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 21632

tatcttgcat gtggaatttc taaagcccca ctccatcata aagagtagta cctgacatct 60  
 tgcacaaacg aatttaacgt tacttgacaa ttatagctgc tgtgtgaata ccttaccac 120  
 tcaagagtat gacacaatga tggctgctct ctaatgaaac actcttgctt tttaccactc 180  
 taattgcctt tgagttctta tgcaattcac gagagtatgg acacatca 228

<210> 21633  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21633

ntacagcaga ttntagtaat gaccactaa cctagtttta aaataactta atgccattaa 60  
 cctaggggaat taaaaaaaaac ttaatggctg agtgtaactg aaattgtggc aacaaaaagt 120  
 ccccccaac agccaacaag tcagccacca tttggtctcc caaaaggctg atgcctaggt 180  
 tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagttgatt 240  
 aacccaaaac atatttttgg tcagccaact ttacaaggat tggggcatta tttagacaaa 300  
 ctaaactc taaaattgag acaaagtggg gtcatttagt cctcctccat ttggggccatg 360  
 atacaactca caaccttga ctcttctcct tgaaacttgg gcttgtattc aaatagtatg 420  
 gacag 425

<210> 21634  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21634

agtctttcca accaaattta ttaatacatt ctcaattgat aaaagcttat tgaacaagtg 60  
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 tttagcacac acacaaaaag aagcaagaat aggccaataa tgtctcatta tcttgttcaa 180  
 ttcgtgcaat aagaggttaa attcatctta agatgcaa ataacctcag gtagcatgac 240  
 tttgtcgaca tatatcatat atcaacagat tcaattacag tggaaatttt caggcaatat 300  
 tntatgatat taaatntatg gtcttgctg aactacaaat attgtcccat ctttaaccac 360  
 tctttc 366

<210> 21635  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 21635

taaaatttga tatctaacaa gcttcatact taaaactttt tttatctatt aaaccaacat 60

ttaatcattt ccttagaatt acaagtaaaa accctaatag aaaaactctg taacacacta 120

tattccacca ggactcaatt atcgaataat aattaaataa tatctgcaaa ataagtttaa 180

aattataaaa ataattatta acaaaaagca tctaaagtta atacaaataa aataattata 240

attgaccaat gccagtgttc tttgttttct tgttttagcaa gaaaaaatga taggatgggt 300

tatttttcag gaagcatagt ccaacttacg ttaagccagt ccctgatata tcaaattcca 360

aatgtatgca agaacgggtca gactcgggtt tgtgaagctc cctttgtaca gcaacattca 420

cc 422

<210> 21636

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21636

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tggaggtact cgcttaagcg tcatattttg tgcgcttaag tgaggagagt ccgcaactga 120

gaaatttagg actagtggac ctgcgttaag tgagctttta ctcatgctta agcgagctag 180

gtagtacgt taggcccaag cccacatcaa aatataaaaa ctagggcgcc ataaatgagg 240

ggattcagag cgttttggaa aacaactttc tctgtgagag agaaccattt ttagggctct 300

tagctntaaa tctttatata cnttttatgt ttgggtttga ttattataat caagcaacta 360

atc 363

<210> 21637

<211> 418

<212> DNA

<213> Glycine max

<400> 21637

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agagttaatt gaaggggtgc atcggaggtc taataacatt atattggggg tttgtgaatt 120

tgagttgatg gggttacgaa aatttggtga tagtatattg ggattttagg tgtgactgaa 180

atgatgattt ggtgttgcag ttgcagggaa ggggtgtgga gtgagtgtgt gagagagagg 240  
 tttgattcct ttgcttttag aaaatctgcc caattggaaa ggggttaaag ggaaagttga 300  
 ggactacatt gagcactaca ttagcctgtc aatataacta atgatggtta agaataatgt 360  
 ttgtttgttt ttttttttaa cttataaaat taaactacat tagcctgaca atagacaa 418

<210> 21638  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 21638

ctctttaacc aacggttgat ggaccatttc aagaccttga aagaatcaca tgacgatgct 60  
 taaaaagctg atcggaccgg gctgaataat gctattttca cctaaagtgc ctatgattta 120  
 actgtgggtg atacatacgg tgtatccac tcgcggacag atccttatta agagggagag 180  
 agtgaagaat acttgttcat gagcgcgggc agagagccac ttgatcgact gatgcgaacc 240  
 atgactcagg ctacatcaat gtgtgcccac gtatcttata tac 283

<210> 21639  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 21639

tctggaggaa gcctcttaat gaagcttctc gagaattcta cttgcagctt ttctcagcaa 60  
 aatcgctgcc catccttcgt ttaccgaggg atcttctcga aatccggata gcaacttcac 120  
 aatacactcg atcatgatct gaccgttggg atctttgaga agatgtctgg agtgtgctaa 180  
 atgcttccga taccgagagc atctcttatt caagcatgcc tactctgtgc tttcgagtag 240  
 cttaagaata acggaactac gccttcgttc tttgttgcca tgccattcct gaagtaacga 300  
 taagatggtc cattatccac gaacgccatt acacctcacg aaccgtcggg gcttgacaca 360  
 tcgaaaggaa cccgtctgcc gtagcgga 388

<210> 21640  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 21640

agcttttctt ggtgggttga tgtactctat cacataggat agcatgatca ctaacagaca 60  
tattttcaat caattcagtt tctcttcag gggttttcag ctttatcttc cctcctgctg 120  
aagcatctaa caactgcttg gtttgcggtc tcagcccatc tataaacatg ttcaattgaa 180  
ttggctcaaa gaatccatga gtgggagtct ttcttaacaa accccgaaat ctctccaatg 240  
cttcactcaa tgactcatca gggaactggt ggaatgatga aataacaaca ttcccttctg 300  
cagtctttga ctcgaggaag tatttcttca taaatttctc aacaacttcc tcccatgtct 360  
taagactggt gcctttgaat gaat 384

<210> 21641

<211> 426

<212> DNA

<213> Glycine max

<400> 21641

ttgtgtaacc gattacattg atttggtaat cgattattag tgattgtttc tgaataaaat 60  
caaaagatgt aactcttcaa atagtttttg actttttcaa attgggtttt aagtttttct 120  
aaaagtcata actcttctaa tggttgtctt gaccagacat gaagagtcta taaaagcaag 180  
gctttgtttt tcatttcaag tatcttgaac acttattcat acaatccttt acaagccttg 240  
aatctctttg aacttcttct tcttctttgt accaaaagct ttccaaagtt ttctgggttt 300  
ctaaaccttg aaaacttggt ctattcatct ttccattccc ttctccctct gccaaaaaga 360  
attcgctaag gactaaccgc ctgaattctt tctgtgtctc tcttatccct ttccaaaag 420  
aacaaa 426

<210> 21642

<211> 368

<212> DNA

<213> Glycine max

<400> 21642

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catcggatgc cttatcacia gcgccaatt agtgcctca ggtttcgaga gttcaagcct 120  
gttaaactct tggacttgcc atcactatca agctgacatt tacttatgct gacacaagct 180

gagccttctt gcttagacga atccgacgaa gagttatcac tattaggggg ccgcaatgga 240  
 tgggaaacag aacgttctac ataacacctt tccctatgag agaaaaccgt gacctgcctc 300  
 ttatattata attctgatat acattctacg ttaggctaag atcttctaata taatgcacta 360  
 ttatcctt 368

<210> 21643  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 21643

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 aatatgctta ggattatatt acaagcagaa ctgaatggat gatataattga accactgaca 120  
 agtcttttac actgatctaa tcatgcgtta gacacatatt gtaaaatgag atcgactatg 180  
 ataacaacta ctggaatact gtgataagaa catgatgtaa tgggtagata gaaaagccgt 240  
 agactgacaa atgatcaaca ttgaactgaa cttaatcctt ggcttagagg gcatgtggtg 300  
 atgattcatt catctatgca agggccata 329

<210> 21644  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 21644

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 aagcgcaatt ccttacggcc ttaattgagg tccatgacgc taagcgccag tcatggcagc 120  
 taagcgagat tctttgcagc aatatgagcg ctaagcgagt acctctcagc taagcgcgctg 180  
 ctctctgtga ctttaagatgc atcatttttag ctacattggc tagggccagg cttagcgaga 240  
 gttgcagctt ttctaactctg caagtctcgc taagcggacg tactcttgtg ctatgccgag 300  
 tttctgttca aaaaaaaaaat tcaaatttga aacgtcggct aagcgcacgt gttcgctaag 360  
 tgagcct 367

<210> 21645  
 <211> 428



<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21645

ntagtggaaat aaaatgagaa atctatgggtg tctaagatac tttcatgaag aggtctggaa 60  
 atagatgcaa ccttcatttt ttgcgctctt cggctagaag caccagccta tttctcccag 120  
 aaattctatt agaaataaag attgacaata aagaagtaga acaaaatgac aaggtagata 180  
 ttaataccta agttaaagga agattatgga caaaggattt tttagcagcc acatatttgt 240  
 tagctctctt gaaagttaaa gtttgctctg gagaagggtc ctcttctata ttttccaagt 300  
 caatcgtctc aactcgatgt ttagccatca aggaaaatgt tagtagaata acaacgggta 360  
 aataagatac caaaagataa agctctacag aggaacttgt ttgaggagtt ggagaattac 420  
 tggtgatt 428

<210> 21646  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <400> 21646

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 tccatttaca tttcttttagt gtcctatagg ccatgcacaa ggtagataag tcaaggaaac 120  
 acataaatcc aaaaataagc cacaattgtc aattaagctc aatcatttgc ctaagaccaa 180  
 aactaaatta aagtgagaaa ataagagaca aaaagagggtc taatcagata agaagaatag 240  
 aaaaatacta aactacagat gctcaatctc tcccttcctt tccctctcaa atcgttcgat 300  
 atccaccgag ttaacttagt ttgttaaggt actctccctc tatacctcga ttacacattt 360  
 tcttttgtct g 371

<210> 21647  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21647

tgggtgatgt tgcgcgtact gatgggtacc atgaggtgtt ttctgggggtt tgacccatgc 60

gggtgttgaa gagatggcat gggcatctcc ttccttcctt tttgcccctg ttgccccgat 120  
tcttttggcg tttacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatccaac 180  
ctcgattctt tccctggcaa acaccagatc cgcaaagctg gacggcatgt aaccactag 240  
cttctcatag tagaactg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300  
catgggagga gctacttgtg ccgccaaatc cctccatcgc tgcgcatatt ctttaaaggg 360  
ttcacctct ntcttgaaca tattctgcag ctg 393

<210> 21648  
<211> 320  
<212> DNA  
<213> Glycine max

<400> 21648

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cttgggttgc ttctggcaaa ggttgcggc gaatggcccc attttgagtg ctatgatcat 120  
agaatgcaat ccaacactag ggtcaaggtc tttcatttta agagagatgg tgacgtacct 180  
ctccgtgaag gatgataatg actaatcatt agcttgggtg aggttgacca aagcagtggg 240  
tgttgtgtgg tgagggctgc tggttgcata ttgcgcttca aaatgtaga ctaatgagga 300  
gaaggagtgt tcgcaacatg 320

<210> 21649  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 21649

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gattgaacct tgagcctgca caatttatct cctactacct tatcttaggt tgtaggagag 120  
cgtcattcat agaaagaatc ttggttcaag gcaaatttgc ccaaatttg ggggagttac 180  
tggttgaaag tgtgaaatgg taagaaaata tcagcacaca gttcaaaaaa aactaattat 240  
aaaataaaag tgtgtgtgtg tgctgccatt taataaaaag aaagttgagt gtaaaaaggg 300  
ggcaagtaat acggttggga ataaaaataa aaaggttgat ctatggatga atgctctcct 360  
agaatctaag ctactgcgtc ctagaaaagc catgaattat ttgcagccta gcctcattac 420

aagcct

426

<210> 21650  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 21650

agctttaacc tcattgtctc tcacagtctt tagattcggg agccaatcca atccttgtgt 60  
ccggactctc atccacttat gatagcgacc gatgatccca ttactgcttc ccctaagctc 120  
tctgtccttt cttcatgccg catcccgtgc cttgcgaact ccttggagta cctttgcatt 180  
ggggtcactg aaaccccggtg taatgaaagg cgtgatgctt tcgtctaata gcgctcctct 240  
catggggtag ccaagctgtc ttatggcgag gacgggatta taattaatac aaccccatgt 300  
tcccatccag ggaacatttg gata 324

<210> 21651  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 21651

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gttttccacc atggagatgc aacggaagac aaaggagaag aggggagagg aggcgccatc 120  
cactacggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180  
gcttgggaagg atgcttcaat ggaggaaaag aaagagggag agaaagagag aggggggagc 240  
acgaaattga aggaataaag gagggagaga agtggaactt tgaaagatgt ctcaacagac 300  
tctcattcat caaagtgaca acaagtgtta cacatgcttc tatttataga ctatgtagct 360  
tccttgagaa gctatcttga gaaaacttcc ttgagaagct tctttgagaa aacttcctta 420  
ag 422

<210> 21652  
<211> 67  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 21652

tttgtcatgc aagcttttct aacactttct ctcaatatga aatccacatn ngaaccnna 60  
ctcatcc 67

<210> 21653

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21653

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gtctaataga ctaaaaatct acttcttaaa aatttgttgt cattaaaaca ttaatttcat 180  
aaatattatt atgttgagat catgagattt acattcatat gagtttttgg tgagttgttt 240  
acaagaattc aaggtgttgg aatatcttgc tatgcatatt gaattatctg tgggttcatg 300  
agtgtgatga acgtataaat ggtgaatcta tgatgttata acctctgttg agattagtga 360  
atgaatntgt gatgacatat ggtattaatt tgaatgatca taacatacat gcattgatga 420  
atgacattat atgtgagt 438

<210> 21654

<211> 376

<212> DNA

<213> Glycine max

<400> 21654

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tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgaa 120  
ggagaaaccc atgctgtgat tgccattcct gtacggccaa gtttcccacc aaaccaaca 180  
atgtcattac tcagtcaata acaaacctcc tcttaccaca ccaccagtt atgcacaaag 240  
gccatcccta aatcaaccac taagcctgtc tategcactt ccaatgacga acaccacctt 300  
tagcacatac caaaatcacc aaccaagaag tgaatcttgc agcgagaaag cctgtagaat 360  
tcacccaat tccagt 376

<210> 21655  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21655  
  
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 ctcggaagca aaaaaaggaa agaaggaaag gaaatttcca atcaaagaga aagcaaaaaa 120  
 ggaaggaaag gaaattccca atcaaagaga aagcaaaaaa ggaaggaaag gaaattccca 180  
 atcaaagagt gggagaaaga gaaaaaagaa aagaaaggaa attcccaatc aaagagtggg 240  
 agaaagaaaa aagaaaagaa agaaaattcc caaccaaaaga atgggagaaa gtaaaaaaga 300  
 aggaagctcc tggtaaaga aaccagaaga aatgtgccga gaggtccttg gaccagacga 360  
 tatctgaaca atacagaatt gcaccaaag aacaaaagaa agataaggaa accatgacct 420  
 ataagt 426

<210> 21656  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21656  
  
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 gtggcttctt tgagaagctg tctcaacagg cttctttgag aagctagatc cttatctatc 120  
 cacaccctt tattaactaa attaactccc ttaaaaataa ttacggatga aaataacgca 180  
 actaataatc aaacatcata cataattact aataatatat agatatatat atcagggtgt 240  
 tacactaacc ctttttgaaa ccctacaaga tatcccttat ataggcccaa agagagagag 300  
 aaccacaaa atcgcacaa atctctcttt tgccttctt ttgtaaaaca tgacttgta 360  
 ggtgagcaca gtcactagg a 381

<210> 21657  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21657

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 ttccgctgca actccatggc tgaaaatcac cattgaaaga cctcattgaa gcttaaagat 120  
 tcagcttcca caaaagtttc ttaagcaagc ttccatcaag tagtaatcaa agcacaagag 180  
 cttcaagtag gtgctcctta aacctccatt aattttttagc tttaccttct cctccattgt 240  
 tgtttcttca tttttatcca tgtatctcct tacatgtctt gtgctaaatg ttgttaacat 300  
 gatttttttag aatttccaca aattaaactt gctatagaag ctagatttga ttttctatgg 360  
 ttcanatctc ttgttcttgt tcttgaacca tgaattgtgt tgagttaaag ttcctttgag 420  
 t 421

<210> 21658  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21658

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 aaatacataa taaagaaggg gagatggctc taatacaaag ccataattat gactatgtgc 120  
 tgtttctttt tcctccttta tttttctttc ttttttctat aataaaatgt gttattggca 180  
 ttgattaaaa aaaaaagaaa aagaatatcc acttgaactg ttcacaatta tttctataaa 240  
 aaaggagtgt aaataagata atagattggt catcatcctc tgggcattct cacacgtttc 300  
 gagtgtgaat taataactct ctgaattttg aaatactaaa tcnaatttga tactattgat 360  
 att 363

<210> 21659  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21659

ntaagcacc atgagtgttt cagcacccta gtaccattag tgtatgtagg gttctcttcg 60  
 agccacactt ccaagagcag tgtagggggt tttgtgggtt cgagcgaggg gtttccggca 120  
 ctattgaaaa taatgtggga caatgtggat gtcgaggag cggttttcg aagatttcag 180

gcgaggagaa aaagacaaga gcgatttcaa gaaggaggac aaagagaaga gggaggggcaa 240  
 ggttttcgag cgcgcgggtt gtgaaatgtc aagttttaac ttataaacat aacaacatcg 300  
 tttttttaag gataaccgat gttaactgaa tatagttaac atcggttttg gaaaagccga 360  
 tgttaacatc aaatagatta catcggttnt ttaaaaaaac cgatgttaag atcaac 416

<210> 21660  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 21660

agcttgccac ccagctcgcc caggcgagca gggttgcttc ctccagaagc aacagccttc 60  
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 taaatacacc cccctgcttt ttttttgtga ttcttttttg gtaaagttat ggaaacatac 180  
 gaattttgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggatcacata 240  
 atcatccctt ttctgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300  
 gcatttgatc tccggtgtgt cacggaacct tacgaattgt gcatcaatat tgtcttttgt 360  
 tttcc 365

<210> 21661  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21661

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 gagaaagcaa aaaaggaagg aaaggaaatt cccaatcaaa gagtgggaga aagagaaaaa 180  
 aaagaaacga aaggaaattc ccaatcaaag aagtgggaga aagaaaaaag aaaagaaaga 240  
 aaattcccaa ccaaagaatg ggagaaagta aaaaagaagg aaaccatgac ctanaagtgg 300  
 tcttctccct ttgattacca accaaaatcc tgtgcgctag cgactntntc gccccgcgct 360  
 aaacaaaaac agaaaaggaa aaaagccaac caaaaatcaa aagccaaaaa cacacaaaag 420  
 c 421

<210> 21662  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21662

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 atgagtctag cagcccccaa gcctccattg ttggattttt gctctccctt ttgcgttttt 120  
 gttcacttcc tacaagtaag tgcactatcc cttgattctt tggctctcca tcgatgtatt 180  
 ttagtgctct aattatctat gtttggcaaa tttcgtgagg caattcatgt ttgatttggt 240  
 gaattanggg gttgtaggga tggccatgag cctatctttg attctgagat gaatgggcat 300  
 gacacattat ccctattccc catttttttt catgtctaaa catgcgcca ccaagtgttc 360  
 agtgaaatgc ctcaattcaa ga 382

<210> 21663  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 21663

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 tcactttcta accctagggt aaactctacc attcatctct aacagttttc cataagcaat 180  
 ttcaacatat aaacatcaca aacatcatca caaaaaccct aaaacagagt gggtatgtct 240  
 aactcatcca aacatggcaa tttcaacaag ctttcaacaa atgtcttcac aaataatcat 300  
 cacacagcag aaacctagca agactacca tcatatctcc caaaacocca taccacgaa 360  
 atttaagaga gaaagaagtc cacccaaacc tgaattttcg aagaccact cgtagccacg 420  
 cact 424

<210> 21664  
 <211> 389  
 <212> DNA  
 <213> Glycine max



<400> 21664

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agacctccaa tctttaatgg agagggttac cactactgga aaacccgaat gcaaattttc 120  
atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180  
acagtagaaa gagtttcaat agatggtagt tcatcaagt aaagcataac catagaaaaa 240  
cctagagata gatggtctga agaggataga aaacgagtac aatacaactt ataagccaaa 300  
aacataataa catctgccct aagaatggat gagtatttca gggcttcaaa ttgtaagagt 360  
gctaaggaaa tgtgggacac tcttcgatt 389

<210> 21665  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 21665

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atttttagcc atggagttgt agtgaagat aaaaggagaa gaagtgagaa gaggcaccat 120  
ccactacgga ataagccatg gaagaagaaa cttcaccacc aagagagtgt cttggataag 180  
aagcttaaag aggaagcttc aatggaggaa gagaatgaga gagaaagaga aagagaaaaa 240  
gtggcatggg aatgaaggaa aaacagggag agaagttgaa ctttgaagtt tgtctctcaa 300  
gattctcatt catcaaagtt gccacaagt ttacacgtgc ttctatttat agcctatgta 360  
gcttccttga gaagcttcct tgagaagcta gtgttacacc cctccaatag ctaagctca 419

<210> 21666  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 21666

cgcttcgatg gcaagctagt aacacggcat gcaaggtaca aaggcggaga tgatgatgtt 60  
aatggtatta acggcaacca caaatgtata ttatgactca atgactgtta tatagattta 120  
tatgaaatac ctatacaagg actagtatcc actttgttaa aatctcaagt gataatatat 180  
tatggtctag tgatgcttcg gcactagatt aaaattctta taattaaagc gaccgatcgt 240

ttacaacata tgctcctgta tcagactcgc atttatcctg aggcattaca tgcgacttgg 300  
agacatgtgt caaccctcca cgttgagaca cctgtaccc cccacatata tgta 354

<210> 21667  
<211> 208  
<212> DNA  
<213> Glycine max

<400> 21667

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aggggtgctaa tttgatagaa agatctcaga cttagctcccc acagcttgtg caccggaacg 120  
agtggcttac ttgactgaaa ctgagatacc tgcacaacgt atgaacttgt agagccaatg 180  
atgctaattg catttactgt gactacca 208

<210> 21668  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21668

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actttattac tattatatta ttgtagaata ataaaaatac taataaccca ttaatggggg 120  
ttactttctt ttatcccttt attataaaca ctgtcattca aagttaataa tagaaaacat 180  
gccttttgtt tgcatttgca tttgcagtta tcttcaaaag gatcaacttg ggatgaaata 240  
gactatgaat ttcttggaat tctgagtggg gatccataca tccttcacac aaacgttttc 300  
agccaaggca aggaggacag ggaacaacaa ttctatctat ggttngaccc aactgctgat 360  
ttccacactt actccatc 378

<210> 21669  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 21669

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atttcagatt aagtaataat ctgcacaacca actcaaaaga ttgaaattta ttaaaatata 120

taatgatctt gtcatagata caaactctaa ctacattgat taaaggaata ctttaaatatt 180  
gctgtaaaaa aaaacttttaa tatatcgttg ttaacttaaa ataataaaca tcatcatggt 240  
gatttttttg gttattggga tccaaaaata tcatgggtgct tgaaagggtt ttcgacccat 300  
cctgatatgc tgagtgggtg tctttagatt cagccgggta atgggccttg gtagcaaact 360  
ccatattttt atttggcaaa taaaatgcag caaccctcat gtccacc 407

<210> 21670  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 21670

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ataattatat ttgtgtcatt ataacactag acaatattat gatgtataac taattgagaa 180  
caaaaatgaa tatgggttaa aaaattatga ttaacacata gtaaaataac tattatataa 240  
gaaactgtta attaacaaag tcataatggt caagagattg tttttagcaa aaacatgccc 300  
acaaaataaa gtgttaattt acaaataa acaaaagtca gaataatatt aaacttaatt 360  
cattaaca 368

<210> 21671  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21671

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ttgcaaagtt tcatggcctt gcaggtgaag acccgacaaa acatttgaaa gaatttcaca 120  
ttgtctgctc taccatgaaa cccccagatg tccaagagga tcacatattt ctgaaggctt 180  
ttcctcattc attacagga gtggcaaagg actggctgta ttaccttgct ccaagggtcca 240  
tcacgagctg ggatgacctt aagagagtat tcttagaaaa aattttccct gcttccagga 300  
ccacagccat caggaaggat atctcaggta ttagacaact cagtggagag agcctgtatg 360

agtactgnga gagatataag aaactatgtg ccagttgccc ncaccatcag atttca 416

<210> 21672  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 21672

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caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaagc 120  
attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180  
tttcaaaaat atcatgacat gtagagaaga atcaagaatt tcaagtcaca aaatgtcaag 240  
aactttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300  
catgcaaagt cgtacatgca cacaaaatta acccataata ttaaactaac aaaccgacga 360  
aactaccaac attaacaa 378

<210> 21673  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 21673

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cagaacaatt atgacctttc cagcaacaga tacaacctg gatggaggaa tcaccctaac 120  
ctcagatggc ctagccctca gcaacaacag cagcctgctc cttccttcca aaatgctgct 180  
ggcccaagca gaccatacat tcctccacca atccaacaac agcaacaacc ccagaaacag 240  
ccaacagttg aggccctcc acaaccttcc ctcgaagaac ttgtgaggca aatgactatg 300  
cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360  
ggacaattgg ctaccaattt gaatcaacaa cagtcccaga attctgacaa gctgccttct 420  
caagctgtc 429

<210> 21674  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21674

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catgatgcag accttccagg agtcaatagt tgcagccggt gctggattag ccttaggtga 180  
ctcagtgggtg atctcttaac ctggcatgtc catctcttgg taataatctg tgtgtgtgtt 240  
ttggggaggg gtaagtgagt ggatatggat atgtacatat ctacttcttc tggtgacttc 300  
atactggana ggactatttg tgtgtgtgta cctnttttgt atctttaagc ttgtagttgg 360  
tagagggggt ta 372

<210> 21675  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21675

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gcactgcttg gattggattt cagggaggag aagcacagat tgtagtactt ggtgttcttg 180  
caggtttttt ctatcaaact gtcactctct ttcacaaaag cgtgtgggtg aaagagtgat 240  
attgctagca agaggagaga tagatagaag atcttagaag ccattgagat agcaaaagaa 300  
gaataaccaa caccgataat ttaagggact gcgtatntca naaagggttt tagagatttc 360  
ctatttctgt ttttgacgtg ga 382

<210> 21676  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21676

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ggatgccccca cattatttcc atgacacaaa tgcaaagatg atgatttga aattttatgc 120  
aaaactggtc atgcatgcac ctatgtggac gctcaagtgt caaattttta tgggtcatgtg 180

atgctagggc tcangattca tttcctctat tttaaatcaa cccaatgttt ccaaaatatg 240  
 ctcttttatc aatttatgca tttatcctag ttcatttcgt gcgtccgng aaattttcac 300  
 agcattcacc cttcaggtgt agacacgttt tttcttcaaa aatcggttat gatctatgaa 360  
 ttgtttt 367

<210> 21677  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21677

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 ctgtttttgt tgaaaataac ctatgctaatt ctcttggtt ttatcttata ttttgcaaat 180  
 ggcatctaag aaaaggaagg ctccttctac acctttccaa gtcagatatg atcggtctcg 240  
 gttcacatct caagaagctt aagagaggta caccgatatt gtggtgccta ggaaactact 300  
 accagagagg aatgtggttag tttatttcac tgagttcgat gagttcaagg aggaactcaa 360  
 gagaagacac tgggatgaag agttgactta ttntactgat ggcagcatag atgtcaccat 420

<210> 21678  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 21678

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 tacaacactc ctgcgaccac cggaaagata tcgataaaat actctggctc cgaaccacaga 120  
 ctgttcagaa ccatccttta cacatgtgcg aagaacaata caatcgagct cataatgtgc 180  
 gaaccaacat aataatccca catatagttc ttctctacct acccactata gcaatctacg 240  
 tccattcaga caccatagcg acacctcact tcatcatatg agcaaccatt ccacccttct 300  
 caaaagactc caacactatc tccttcacac ctttataaac accata 346

<210> 21679

<211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21679

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 gttttttctc tcaaggtata caaggtattd tcaagagctta gtatctttac aagaatttat 180  
 agaaatcttd acaagaaata atgaaagaat aattcatcta aatgatattg gtcttggttc 240  
 ttccaagtat taggggtgga taaacggacc cagggtccatg gactggcccc cggttcgcgc 300  
 gggtaacata ccaattnttd aatacagttc atgggttatgt catattdttg ggcttgcccc 360  
 gcttaaccgc cagattatgt ggggttgccc cacgggatcc gc 402

<210> 21680  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21680

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 cttagacacg gactctctaa atcttatagc tatatcataa ttgaaacact taatagaagt 240  
 gccaaaataa gaagtgggtc atggaggtca cctanggcta gtggctgcct tggatgggtg 300  
 ctgcacaaca ggatgactgg attcttgact cttgatcatg cccactggac atacgtctct 360

<210> 21681  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21681

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[illegible]

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<223>      unsure at all n locations
<400>      21682
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<400>	21683
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9090



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397

<210> 21684  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 21684

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tgagagttta ttttgcataa ctttagtcta caactttgac tggttacatt acctataact 180  
tgctttttgt tctttttagg tttaaagtta aactctagat ctatgaactt agtttatggg 240  
gtaaaccaag gctagtacac tacactttga ggaagttcaa agccagctaa aagtcaattc 300  
aaactttgat acaaagtac ccagaataag gactgaaact ccttctgtaa ctgcctatat 360  
cagtaaatat tacaacatc aact 384

<210> 21685  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 21685

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aaattttaca aggataaatt ccgaacattt tgatatttat aagaacaaaa aatatatttt 120  
agccttgttt ttattgttaa aaaaaaaaaa gagagaaatg ctactaacat tttctttaac 180  
acactccttc atacacactt tctcttatgt gttaaaatgt atttagttga agaacaagtt 240  
ccacaaaatc ttgaacctac caagtgtgat ggttgggatt ggtatgagcg cgaacatttg 300  
ccttacacat ttgacgtgac tgtcactgca atggaagatg cccaacacat tcgcaatatg 360  
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<210> 21686  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21686

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 atgctagggc tcaagattca tttctctat tttaaatcaa cccaatgttt ccaaaatatg 240  
 ttcttttatc aatttggtgca ttcctccaag tccatttcgg gcgtccggag aaattntcac 300  
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 aatttttttt tttttttaa 379

<210> 21687  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21687

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 attcgctaac cgcaccactt catctctcta agtgcaccgc ttagttcat tcgctaagtg 180  
 agaaaggcgc cctaagccaa aaatcactaa catgcgctaa gcggtccata cgtgcgctaa 240  
 gtgcacgagc acaaacaagg ccacctatgt aagccttaaa ttagattttg tgaggggagt 300  
 gtggactggg attcagagct ttacatgtct aggggttcta gagagagaaa gatccaagtt 360  
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<210> 21688  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21688

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 aaaagaagga aaatttccaa tcaaagagaa agcaaaaaga aaagaaagaa aattcccaat 180  
 caaagaatgg gagaaagtaa aaaaggaaga agaagaagga aagaaagctc ctgatcaagg 240

atcgaaagaa aacagaagaa atgtgcagaa aggtctttgg accggacaat atatgaacaa 300  
 tacagaattg tcaccaaag aacgaataga aggaaatgaa accatgacct anagtgggtct 360  
 tctcccttta attgccaacc aaaatc 386

<210> 21689  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <400> 21689

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 ggagtcacc cttgtccctc ccaccatcga agccatcga cctcaatttg catgcatcgg 120  
 acctcagttg agttttaaga ggagtgtatt gttaggatat aaggagaaga agagttagtt 180  
 aatatagtta aactactaat gagttagtta gttagagaga tttattagat ataaatagag 240  
 gaagaaggat aggagagaag gggatcttat catttgtaga ttgagcatta gctctttgtg 300  
 aaaggagaaa tcctttgtga aagggaaacc ctggaggag agttttctct cctattttct 360  
 gttcttttct tactagtcaa taaaatcttt tattttcttt ctcatctcaa ttcttggttc 420  
 ttaac 425

<210> 21690  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <400> 21690

agctttatgt tagttaaagg aacttctata cgatcatggt cgagcacaga aggagcactt 60  
 taattttaag catggtcttt cacgatggaa aggcaattca gatttcctaaa tattataatt 120  
 tgtagtatta aatatgcatg gtgaattgtc atgtttatat atgaaactca ttttttgact 180  
 tttgaagagc ttacattcaa cttagatga attgacactc gactaaattg cctacttaat 240  
 gtttttatgt tatagaatga ttattataat ataaaataaa taaatgatgc aaaataaaaa 300  
 attcaaatat atataagttt aattttgatg taccataagt gtaaaaaaaa ttatattatt 360  
 aaccaaatta tatattat 378

<210> 21691  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 21691

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 ccttatgcgg tgctgaaga tgaggtaaac caatcgcatc tctctctttc actcctcggt 120  
 tcacttatca aaggaaatcc gaatctaata atgcgtctgc tctaagctga gacagccaga 180  
 gatttgatg agatatttcc gattattgat ccgaaagctt aggcgaccag caagcacaat 240  
 atctttgtca gtgtcttgag gaagcggctc caccatcctg ggtagacatt tcaatctgga 300  
 agattctggg acattgcatt aatacttata tct 333

<210> 21692  
 <211> 121  
 <212> DNA  
 <213> Glycine max

<400> 21692

accgggcagg cctataggag tcgaatatga ataccgtgac gctttgcaga tctgtcacgt 60  
 gaccttacia gattccatct cctaataccg aggccaaaat gaactcctgc ttacatcatg 120  
 t 121

<210> 21693  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 21693

tttggttcat atttcgacga ccaatccttc ctattgtact tctttgttga agaaattttt 60  
 tctgtgattc ttacataaa gattcataaa atactggatc tccaccaaca caagcaaattg 120  
 gtcgataaaa ctccaaaatg gcattttctt tcgaccctat tattttttta tccttatcat 180  
 ttaggaaaga aacgaaaata tcaggataac aaacattctc tagaatttcg cttaaattcg 240  
 aacccatagc tgatgataaa actagaatag atattttctg tttcctactc acacgagccc 300  
 atatccttgc ttttctatca atctctaatt ctaatctacc ccccagctct gatattatgg 360  
 tgccagtata gaccgaaatt ccgctaaggt ccaattctga acggtaataa ataccaaggc 420

tt

422

<210> 21694  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21694

agcttgcggtg tctgaattcg tagcaaagca cgtttaattt tgagaaaatg agaaattttt 60  
 tccaaaaaca gttgaaaacc gctaaacat cagttttcac ggttttacac cggtttaacg 120  
 gtttctctgtc cggattgtta attgccagtt tcagagatta tccggaccaa atgacaggcc 180  
 gattttcggt tcaaccgata gaactcggtt ctgtccaatt ttcaaaactt tgatgaaatg 240  
 ttaatacatt ataaaaatgaa ctangcatgc actntaaacg gacatccatt tatgatctat 300  
 tatcatatat gtttgtgaaa ttctataata attattntaa aaagagatat taaggatgat 360  
 ttatgaatgt aagt 374

<210> 21695  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21695

tttgccatag tgaacaaga cccttgatta atttgaattt ntgaagattt gctaggggaac 60  
 tagtcatgac cccttaagtg ataaaatcac ttgtcacaca aaataattag acagcataac 120  
 gaatgcaatt atagctatct aaataaacat aacaaacaat ttgctagggg tcaaacaccc 180  
 ccaaacccaa accacaacgc gtatagataa aaatggcaat atgcagagat atatataata 240  
 gaaaataaat ttatcatgcca caaatataat ttccagagtt cacactctgt ctgtcttattc 300  
 attcaacaac aataaaaaata aatatgtgta taaaattata tgtgctgca tgcatatcaa 360  
 taattntatc atgagagaat catcacaatt tcaaaacatg cagctcaaca atataataac 420  
 aaataaa 427

<210> 21696  
 <211> 377

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21696

agcttgccgc cacggagttt tccgactatg ctcttggtg gtggaacaag ctacaaaagg 60  
 agagagcaag atatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
 cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300  
 atatccgtga tattgttgag ctgcangacg ttgttgaaat ggatgatttg cttcaciaag 360  
 caatccaagt ggagcaa 377

<210> 21697  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <400> 21697

taggctaaat taagctaaac tttcgtaagc tacttggtgct gactctagtc ttacatgagg 60  
 gatctgcaga caaatagctg ttatttttgt tttggtagct atagttgtta tttttggctg 120  
 aatgtttttg tggtcacttt ttttgatcca tattttgtgg gaaaaatagt tggagccctt 180  
 agtttgggtca gatttgaaaag ttccaaaaaa gtagcaaatt tgatttttgt caaaacttca 240  
 aacgaccata acttttgctc cggttatcag aatcacaatt attatatatg tatttgggggt 300  
 aaaaaaaaat ttcccatgcc gtggcagcct gccataggct ggctgaggtc tccttcttcc 360  
 aaaaattgcg attctgtcaa aaattattta tttccaagt attattctct tatttttctt 420  
 aactta 426

<210> 21698  
 <211> 272  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21698

agctttctca atatttgtgg atngatgctc ttaagacgac tgcgtatata tggcaccgag 60

ttccaaccaa cgctgacgca tagacacctc ttgagttatg caaaggatgg aaaccaagtg 120  
 tgctacatat actcgttagg ggatgcccga ctgaagcaag aatccataat gcacgcgata 180  
 tgagactaga ccctaatact atgactaggc atttcacgga atatgcggaa aggtctaattg 240  
 ggtatatggt ctattggcca tcccacaaca ct 272

<210> 21699  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21699

tatatataag agtttttctaa taaatctcat ttgctataat gatgtaaata ataatttcta 60  
 gtatttttaaa tcatgatcca gttatagaag cagttactag aaggtagatc agttacaatt 120  
 ttcaccgggc aggcaaattt ccattacatt ttgtgtgact ccagatgata ttgattgtcc 180  
 ctatgctcga tccttgatca gcttacaggt tatgactcat aacctgattt tagtgggcat 240  
 actcatatca ttatcattac atgctaattc ctcatgggtc atgatgaagt ctgtatataa 300  
 aaatactaca tgcattgtatg tgtacattgt ggaaaaatac tgccaacacc ttatngtggg 360  
 ggaaaagtct tgaaaattat gaccaggcct t 391

<210> 21700  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21700

agctttataa gcgcggggttc gggagacaaa ggtcaagcgt tcgcgatatg cgaagatgat 60  
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 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt tacggtttta 180  
 aaagctctat agttgggcct aggtctttaga gtttttctct ttgttaaggc tttgtgtctt 240  
 ttgtttttga atttataata caaggatctt tcttcatctg ttcttgggtct ctaccattc 300  
 tcattcactt gcatgtttac ttcttntct gaaacggcag atccgatgac gaggccccg 360

<210> 21701  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21701

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 ttaaccttga cttggtaaaa cctcttgccg gtttgattag tccccatgct tactaaagtg 120  
 agacaaaaag ctggtgcaaa tcaaaactcc gatattcat ggggtgggatg gatgaatgca 180  
 tgaaggaatg catatgacac agctgtattt taagaatgcg ggtgcccggg acattgtctc 240  
 ctttttagac acaacgtcta ggggtagcaa agtgcccaa tgtatgtatt taaaacgggtg 300  
 acccggaacc tccattgatt ntgtctatag aggggatcaa gacagaacc ctatgcaatg 360  
 catatgcaaa aggcgcaata gcatgaaaat attcactgaa cataagca 408

<210> 21702  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21702

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 acgaatgcat attcaattct tgtgttcgtg ttcatatata tattacactg gcatacaatg 120  
 catgtttatt ttctttaaga tgctgccatc tgtccaattt gtttgctata tatgagattc 180  
 attaaatggt tgggtaaggc aattataccg ttcccgcgag tcataccatt tgtcattggt 240  
 catatgcata gattaattca taaagttttt tttagccaaa tcattntata gtttgtgttg 300  
 cagattatat aatgttttag aaaaaaagta aatatntaa aatatatatt attttactaa 360  
 attaatat 368

<210> 21703  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21703



ntgggccatt aacaaaaaa atgtatgttt gaagtattat ttgattgcct ttctaaacac 60  
aatatgtttg aactttgaag tacacaaaag gatgtgaaag tgatgcaaac atatagcatt 120  
gaagcatacc aagtaagtaa aaacgtactc caatatgacc agctccagaa gaaagaaata 180  
gctccattaa cttgggttaga agacattgtc tgcattgtgc atagaaacac tggtattaat 240  
gaaaccattg cacatatagt tcttcaatta accacaattc ttttcaactt ttaataatat 300  
aaagttccaa aaaccttcct ttcaaaggaa aagggggggg gggggg 345

<210> 21704  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 21704

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tgatagtata gtgacaataa tgataagatg atcatgatat aatagtgata atgggtgacaa 120  
aaatagcaat agtaatagag atgatgataa taatgataat agtaataatg atgacaataa 180  
cgatgataat cgcgaaagta ttaagtatac ctttatttta ttttaggttt cattacttat 240  
ttgatgtcac tatttattat tgcattcaat ttgggtcttta cttattttaa aaacaagtaa 300  
ttcattaggt cttttttggt caaaactatt tatttattta tactgggttta agttaaatca 360  
acattatttt ttttataatt aatgcttg 388

<210> 21705  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 21705

tcaccaccaa gaaagtgcct tggataagaa gcttagatag gaagcttcaa tggaggaaca 60  
aatgagaga gaggacatg gaaattgaag gagaataggg agagaagttg aactttgaag 120  
tgtgtctcac aaatttctta ttcttcaaag ttgtgacaag tgttacacat gtttctattt 180  
atagcctacg tcaactaact aatgaaattc acttaatttc atgtgaatct aaaagaaata 240  
ttccaagaat atgtcaaagg aatccttagca tattcccttt agatgccaca agcatgggag 300  
gtgtgactct agcacatggg aaacttcatt gagaagcaag gaagaaagct tccttgagaa 360

gctagagggt agctactgac acccctctta tagctaagct cactcccttg ccaaaatgga 420

c 421

<210> 21706  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21706

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cagggtcttg attcttcttt ccttatttca tgccaccaca ccaatcctat tctgttcttt 120  
tccttcatat atcttatttt cttttgcttt ctctgttatt ctacttgctc aatcctcttt 180  
gcgtctttaa tttatgtttt acaacttttt catgccattc cccgtagacg gtgaaaacca 240  
tgccattcgt tacaacgata gaggaggatg tcaacctcca attggactga agggactcta 300  
accaaaccgt aatattccga ggtgataaag ntctcattct atatattata tgacattctt 360  
gttatataat tganataata gaaca 385

<210> 21707  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 21707

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atgatttaca ttctccccca ttttgatgat gacaaccacc tgtaggtttag tagcaacaac 120  
aaagaaaata tctatttgca tatagtttac tcccccttgg ttttacaatg attgcttata 180  
tgagacaatt gaagatttca tatttttcat atataaaaag ttgtctcata aaacaataga 240  
taatttttct tactatttta tcttttatct ttctctcccc ctttgtcaac atcaaaaaca 300  
aatcatgaat agcgaggaga aagatgtttg ttgcaatgta tgagaatcaa gtgataccaa 360  
aaggatttaa atcaatcatt caatattaat caagcaaaaa caagtgcaat aacacatcaa 420  
tcacacac 428

<210> 21708  
<211> 371

<212> DNA  
<213> Glycine max

<400> 21708

cgctttgcac gcacgtttac tagcattttc tagcacgaaa ccgtgatacc tcatgccgta 60  
ctggaggcct ctgactcctt acacaagcgg tgggggggggt ctaagttcag agacctatga 120  
tgctcgcagt gtgtcataaa gaattctact aaactagtca tgagggacaa ctgtgcacat 180  
aactgggact ttatatgatg ctctattcaa gacatttaag aacgttatct ttgttgatga 240  
gagatactac ttcgattgc acctgtccac ttgcatgcat ctactttggc tccatgacga 300  
gatcacgcgt catgagtggg aggctacaga ctatgatgaa tgatattaag tgatagctta 360  
acctaaccac t 371

<210> 21709  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 21709

tgatgctat gcaatgattg gatgtgcacc aaagactcta ttatatgata ttaatgctac 60  
ccttagctat gttggagggtg gaacaagaaa tgggatgaaa tatatatgca aatgacaata 120  
ttaccctgat gctagatact aattatcata tatattccat cacttagatg atctacttat 180  
tatactaatt tatagactga agaagcacac gatattatgg agatttccat atatagttag 240  
atgctctctg gatgcttccg ctatacatca ccactttgtg aaaatgtgat actggacgtc 300  
agtgacatga ccaaggaaat aatatgctgt aaccttacta catctcttga gagtacaatc 360  
attctatgag ttgtcatagc actatgtgag agactctgag catatcatatccat 414

<210> 21710  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 21710

agcttggtgt cccatgttac gggctagtag ttgctttta tcagttcttg ggccaccccc 60  
tgatattgga gggcgaccaa ctgtgcaagt acaaccagag gaggaggcag gtctccagct 120  
tcgacgagga ggctatcgca tagctactat gcataccagg gcaagatttc gctcagaccg 180

ctgcaaggag acgagtagcg atctgcatac caccacaact ctgatctcct cctgccgaag 240  
 agttagctgg tttatgccat catgacatag gtaagtatgc acgtggctca attgatttct 300  
 aatgtcattt attgtttgca gggattgcac ccacaagaca ctcaagtggc ccggagaagt 360  
 ccaacagggt cctgggggtt ccagctctg 389

<210> 21711  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 21711

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 tgcacttctt tctctttcga atttgctttg aaaaattgtt tccgtgaaga aaatccaagc 120  
 cgaggcgctt tcgtaacgtt tccgtgagga atttcgcgaa ggttttcgac cgttcttcga 180  
 cgttcttcat tcgttcttca gcgatcttca gtcttcaacg agtaagtacc tcaaaccaag 240  
 cttttcaatt cattctatgt acccgtgggt gtccacattg ggttgcatgt attcttattc 300  
 tcgtttcatt tactttctat accccctttt gacgtgctta agccatttta ttttaagtcatt 360  
 ttctcgctta acctcaaact aaaataaatc tccaccgatc 400

<210> 21712  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 21712

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 gttgccccat cttgcttaaa catcccactc tctccaacc accggaaaaa tatcaatgcc 120  
 ttcgctgggt ccgaagccaa actctccaaa accatcttaa cgacatcacc ggagaaccct 180  
 acattcaagt ccttaatctg cctctcaaca tcatcatccc acacattggt cctcacaatc 240  
 ctacacacta tagcaatatt cttctcattc aagttatcat acaaaccctt caacttcgcc 300  
 acatcagcaa ccattccacc cttctcaaaa gactccaaca ctatctcctt cacaccttta 360  
 gaaacaccat acc 373

<210> 21713  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21713

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 tggacagagc taacctttta ttagtagaat agacatgggt aggatgaaac tccttcctac 120  
 cagaggagca gcccatgagc taaaaaacta ggtagaacia agagctgaaa aatatctttc 180  
 aggaattggc aaaaatgatg catcaatatt acattcacc c atattagtgt ttaagtgaag 240  
 aatgatagca ggggggaaag atagtaagaa gtgtactagt cagataaagc aaggagagaa 300  
 gtagtagatt tcatactaga gcactagtgt aaaagccacg atccccacat aattaggtat 360  
 agagatactt tggatttgaa aactttacac gtatgcatat atgccaagtt ga 412

<210> 21714  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21714

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 attgtgatgc tgggtgttact tcgcctgagt tcttgctttg ggagcaacag gatcagctcc 180  
 ttctattgtg gcttcaatct actgtttccg gcgaggtgct tccgcgggctt gttgggttaca 240  
 aaactgtgtg gcacttttgg gacaagctcc acacacactn ttactccatt gttcgtgtga 300  
 naaaacggca actccacaat gatttacgta acattntttc taaacaatag ttcaatttct 360  
 ggctatttgt 370

<210> 21715  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21715

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aatgagaaat cccaaagaga aaacgtccga ttgattttcc gctttatttt actaaaagat 120  
gtttttcgat tatttatatt attttttacc tctttttgat ttccatcgtg gttacggcac 180  
gaccgaacgg tcggaattta ttttaaccga agttaatgga taatacaatt caaacgttcg 240  
gtggaaattt attttatttt taagttaagc gagaaatgac ttaagtaaaa tggcttaagc 300  
acgtcaacag ggggtataaa aagtaaacia aacgagaata aaaatgcacg aaacacaatg 360  
tggaccacta cgggtacata gaatgaatcg aanagcttgg ttcgaggtac ttac 414

<210> 21716  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 21716

agcttggaga ggatgcttca atggaggaaa agaaagaggg agagaaagag aaaggggggg 60  
agcacgaaat tgaaggaaga aaaagggaga gaagttgaac tttgagttgt gtctcacaag 120  
actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactaggtag 180  
cttcattgag aagctttctt gagaaaactt ccttgagaag cttctttgag aaaacttcct 240  
tgagaagcta gagcttagct acacacaccc ctctcataac taagctcacc tccttgaaaa 300  
gcttccttaa gaagattcct aaagaagcca gagcttagct acgcatacct ctctaatagc 360  
taagctcacc tccttgaga 379

<210> 21717  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 21717

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cctattttta atggagtggg ttaccactat tggaaaaccc gcacgcaaat cttcatagag 120  
gctatagatt taaacatttg ggaagccata gaaatagggc tttatattcc caccatggtt 180  
gctggaaata caacaataga aaagcctagg gaagattgga gtgaggaaga aagaagacta 240  
gtacaatata acttaaaagc caaaaacata attacatctg ccctaggaat ggatgaatac 300

tttaggggtat caaactgtaa aagtgtcaaag gatatgtggg ataccctcaa gtaacacatg 360  
aaggcacaac aaatgttaaa agatctagga taaacacaca ttaactcatg aatatgaact 420  
a 421

<210> 21718  
<211> 88  
<212> DNA  
<213> Glycine max

<400> 21718

agcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttggaca agtggcctca 60  
gatattcttaa gaaagggggg gggggggg 88

<210> 21719  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 21719

gcttctcaag gaagtcttct taagaaatct tctcaaggat tctacctagt ctataaatag 60  
aagcatgtgt aacacttggt gtaactttga tgaatgagag tcttgtgaga cacaactcaa 120  
agttcaactt ctctcccttt ttctccttca atttctgtgt ccccccctctc tctttctctc 180  
cctctttctt ttctccatt gaagcatcct ctccaagctt cttatccaag gctcatcttg 240  
gtgggtgaagc tctttcttcc atggcttatt cctagtggga tggcgctcc actcacctct 300  
tctcctttgt cttccgtac atctccatgg tggaaaatca ccattaaagg acctcattga 360  
agctcaaaga tccagcctcc atagaagccg cacaagcaac cttccatcaa gacttacaac 420  
tcttctag 428

<210> 21720  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 21720

cgcttgtcga ggatgttttc atggttgaaa agaaattgag aacgggggat cactatattg 60  
ggagaataca cgagcgcatt atatgcaact ctgaatggta tctcatagca ctttccttg 120

tcacaggtac agcattggca tcacatgctt cgatgtatat actaaggaac tttcctgaga 180  
agctttcata ataatactta cttgacaagc ttctttgagc aaaagtcctt gagaagactg 240  
agtttagcta cactcactca tgtatacact acgctcacct ccttgagaca cttgcttggt 300  
aagctagagc ttagctacac acacccctct a 331

<210> 21721  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 21721

tctcaaaggg tatgcaaaaa aaaataatcc aagcagttgc caaattacta caagagtctc 60  
ttagaagccc tccaaaacct aacaaatcaa gattttctaag tcattaaaaat ttcgagtaaa 120  
taagcaattt agtccctgac tttgtacccc tgttgcatat tagtccctaa cttaatgaaa 180  
aatccaaaat agtccctatc tttgcataag tgttgcaaaa tagtcattgt cgttacattc 240  
aaaggtaacg tcgttaatga ggtgtccacg taatgctagg tagactaata tgcattctcat 300  
gctgcttaca cttctctctc tctctccgct gctcattctc agcctcttat caccaatcat 360  
gccgcttcca catggaagaa cccaaccca agccaattct acagaaaccc cctagttacc 420  
g 421

<210> 21722  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 21722

agctttgagc aaattcaaac gacaataaat ttttactcag atgtccgatt gtgtcctgta 60  
gtttatcgag acgctcgtga ttgaaaatgg aagttcgtcg caaattcaaa agacaataaa 120  
tatttacttg gatgtccgcc tgagtcccat aatatatcga ggcactcgca attgaaaacg 180  
gaagctcgtt ggaaattcaa aagacaatat atttttactc ggatgtgcta ttgagtccca 240  
ttatatatcg cgacgctcat aattgattac ggaagctcgc tggagattca accataataa 300  
ctttttactc ggatgctoga ttcattcctt aagtatatcg agacgctcgg aaatcac 357

<210> 21723



<211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21723

ttgagcaaat tcaaacgaaa ataaattnta actcggtagt tccgattgtg tgttgtacta 60  
 tatcgagacg ctcgtaattg aaaacggaag ctgcgtagc attcaaaca caataaattt 120  
 ttacacggat gtcggattga gtcccataat atatcgagat gctcgtaatt gaaaacggaa 180  
 gctcattata aattcgaacc gtaataactt tttactcgga tgttcgattg tgtcccgaag 240  
 tatatcgaga cgctcaaaat tctgaataga ggctcttagt aaattcaaatt gactactaact 300  
 ntttactcgg atgtccgaat gaatcccgtat atatatcgag atgctcgaaa ttgaaaacac 360  
 aagctcgtag caaatgcaaa ccacaataac ct 392

<210> 21724  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 21724

tttcatgcaa gcttttagctt taaaagattc tacatgtttt tattatttct ctttttacta 60  
 cattttatta tttttttata tgactattat tatagtaata ttatattgtt gatagtgcaa 120  
 taggcatgat aatagctact agctagaaat agtgccgaaa ataggtatgg ggaagcatgt 180  
 tacaataaca tcaatacaaa aggcaagtac gaagaagtgg gtggcaacaa tgccagtcca 240  
 aaaaaaacac aaataaacta cgggttatca attttgtaa aaaccatttg aacaactttc 300  
 ataagtttaa atgaataatt gatccaatta caggcttata atgacaagtt atcgatttct 360  
 aattc 365

<210> 21725  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21725

ttgagccaca atcctgactc accataaacc ttgacccatg gtgagaatgt caatccttac 60

cctcggaagc aaaaaagaat acaagggaaa tttccaatca cagaaaagag atagaagatt 120  
 tccaatgaaa gatgaaaaag aacagaaagg aaattcccaa tcaaagagcg ggagaaggaa 180  
 aaaagaacag gaataaaatt ccctaccaa gaatgggaga aagtaaaaaa ggaaagaagc 240  
 tcctgggtcac agaaaccaca agaaatgtgc agagaggtct ttggaccaga cgatatctga 300  
 acagtacaga attgtcacta aatgaacaga taggaaggat aggaaaccac gacctcaaat 360  
 ggtcctctcc ctttaattac caaccangat cccgtgcgct agcgaccctt ttttct 416

<210> 21726  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 21726

agcttatcaa acttagaaat caagtgatca tgtattccga aatatagggg gagtaaacgc 60  
 atgcacatth tatcaatata caattgtttg ttgcttgctt gaatcttgat ttcagggtatt 120  
 gtattgtcat catcaaaaag ggggagattg tagatgcaat tggctttgat gttttgatga 180  
 tgatcatgat gatgtgttgc aattgatgca aatgggcttt tcaagattaa aattcaagac 240  
 aatacttcaa gattacaagt cacaacatca agatgatcac tagaatatta ggaaggggaat 300  
 tcctaattga attagcaaag gtttggccaa gtgatttaaa atg 343

<210> 21727  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21727

tcaacatcag accacttcca ggggtgctgga tctacttcac atggatttga tggggcctat 60  
 gcaagttgaa agccttgag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120  
 atttacctgn gtcaacttta tcagagagaa atcagaaacc tttgaagtat tcaaggagtt 180  
 gagtctaaga cttcaaagag aaaaagactg tgtaatcaag agaatcagga gtgaccatgg 240  
 cagagaatth gaaaacagca ggttcactga attctgcaca tctgaaggca tctactcatga 300  
 gttctctgca gccattacac cacaacagaa tggcatagtt gagaggaaaa acaggacctt 360  
 gcaagaagct gctaggggtca tgctccatgc caaagaactt ccctataatc tctgggctg 419

<210> 21728  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21728  
  
 cccaccccc acaatagagg cgcaacaaa nnnnnnaag agggatgatc tcagcacagn 60  
 aangccgcgg gaccaaccac gacattttta caacagaagg ggggggccac ccacgcaccg 120  
 cagagacaca cacacacacc gacaaaanag aaaaagaaca aaaaagcccc cccaccaaac 180  
 cccacacac agaccaagca ccaacacaac cccacccacc cagcccaacg ccacaccccc 240  
 cgcgagccca cacacccccg aaaacacacc cccagacacc aacccccacc aacagcaaaa 300  
 cccaacccg ccccccacgc agcgc 325

<210> 21729  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21729  
  
 gcaaccgaaa agaagaacga agcagaaccg acacaccanc caccgcgag cnatgaccct 60  
 gaaccgaaa cccaaccca gacggggcga aaccgcccgc caaaatatcg aggccccgga 120  
 ggccgagcag gaagngcgca ccgcgcaaaa ccaagcaaag aaaggcgacc gcgcgggcgg 180  
 accagcccc gccgacgctc aaacgcggac aacaaaagc acaacagacg gaacagggca 240  
 cgaacacgaa aacccccag aacacggaaa aacaaacaca caaccgccgc ccaagcggac 300  
 acaaaacaag cgacaaaaaa gaccaccca aacccccaaa aaaaacccc gaaaaaagca 360  
 gcaggcgaaa accagaccaa caaccgcaa cg 392

<210> 21730  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21730

agcttcctta ttanagaacc tcctgtgctg agatcttcac attagcaacc cagataacat 60  
cttttccagt aggccacctt aagggaattt tgtaattcac tggcggcaga actaaacaat 120  
tctgcctaag ctcacggccg cattgcccgt caacttcatt gccatcgga actcccaatt 180  
ccacattctc agaaacattg tagcaaggaa caaagttttc aaactcctca gaacagaatt 240  
ccgactcctt caacctcaac ggaccacgag aaaactcgcc aatatccaaa aggtctgaga 300  
caagcttctc ttgaagcctt ctataacat ggtaaattg acctcttgat gaggatgaaa 360  
tcgacaaagt ccaccataaa gatccagtaa gagccataac aactata 407

<210> 21731  
<211> 179  
<212> DNA  
<213> Glycine max

<400> 21731

ggaatggtga tgcaaaaatc aactgagctt ggaatgaaaa tgcaaaaatg atatttggtt 60  
gggatttttt gttataccgt gcagaagctt tctagcctcg tggacgtgac ctcataagtc 120  
tggagatgta gagctaggta ccgaatgagt ggttttttaa ttggaattaa aaaaaaag 179

<210> 21732  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 21732

agcttgcatt ttatatgttt cgaacaaatc tgataggtga aataaatatt tttttttaag 60  
ttcgtatctt gtcacacaaa tctactaaaa aacacactcg tccccgtacc taaataatga 120  
tgtgaaaaaa tattttttga agaataaaaa atgtataaaa ttagaagatt ttttctttca 180  
tattttaagc taaaatatat cacactaaaa tatatcaact tttataatag tattaacaa 240  
taaataattaa agtggttaata ctaaaatata ctaacattta taatagtctc aatattaata 300  
gcatcaaaat gtcttacata ctggtttata tcggtaatcc gcaagtcggg agataaagtc 360  
cactaggcta aactaaaaaa tttaatatag ttatccagat tttt 404

<210> 21733  
<211> 278  
<212> DNA

<213> Glycine max

<400> 21733

atgaatcgat acaaaacaat cgcattgttaa gaagatcaat cctcactcgt aaaacagctg 60  
gttgagtcct atcatcatga gccttacaga aaaatgctgt gaggcataat tttgctaatt 120  
gtatcacaaa gtcaaatac tactctcaag ctggcgacct ccttgatcat tacttgatat 180  
acatagcctc tcattcttgag cccaaaataa gtgcctgagg taagactggg tcttgtagaca 240  
cagccacaat tagatcattt ataaactata cacctctg 278

<210> 21734

<211> 409

<212> DNA

<213> Glycine max

<400> 21734

agcttgtcta tagaggcca ggaaggacaa ggcggccgaa ggaactagtt ccgctccgga 60  
gtacgacagt caccgcttta ggagcgctgt acaccagcag cgcttcgaag ccattaaggg 120  
atggctgctt ctcggggagc gacgcgtcca gctcagggac gacgagtata ctgattttca 180  
ggaggaaata gggcgccggc ggtgggcacc actggttact cctatggcca agtttgatcc 240  
agaaatagtc cttgaatttt atgccaatgc ttggccaaca gaggagggcg tgcgtgatat 300  
gagatcctgt gttaggggtc agtggatccc gttcgatgcc gacgctatca gccagctcct 360  
gagatatccg atggtgatgg aagagggcca ggaatgcgag tatggccag 409

<210> 21735

<211> 386

<212> DNA

<213> Glycine max

<400> 21735

tcctcggggc cattcctgcg aaggcaaaca tttggattgt agtttttttag aaatataaca 60  
atcattacaa acaagggcca aacaacactt ctcatggcac gagggtcaac atgcacttta 120  
taaaataatc atattgggtt cgtgctatct tatgacacat acgtatttgc acacataaaa 180  
atattgtgtg aaacatttta caacacctat ccatgtacat atttttttga caaacctttt 240  
caatgctaca tcctatatat atacacacat tttttggaag gcttcttttg ttacctactc 300

acaaatacac atattttgaa aaacactttt acgctaccca tccaacactg tgtaaggcac 360  
 ttcatgctat atatattcat attatg 386

<210> 21736  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 21736 .

agcttttcta ctaagttgcc tgatgcctga aatgtctttt ctgatggcag tggtcctaga 60  
 tgcaggggaag atttttctcca agaacaccct cttaagggtca tcccagctga aaacggacct 120  
 gtgagcaagg tagtatagcc aatcttttgt cactccctcc agagaatgag gaaaagcctt 180  
 tagaaagata tgatcttctt ggacatcagg gggcttcatg gtggaacaaa aaatatggaa 240  
 ctcttaaga tgcttatgag gatcttcacc tgcaagacca tgaaactttg gcagcaaatg 300  
 tattagtcca gtcttgagaa catatgaaac accctcatca ggatattgaa tgcacaagct 360  
 ttcataagtg aaatcaggtg tagccatctc cctaagagtc ctcttac 407

<210> 21737  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21737

aacttttagct tgcttcacag atgtccagga aggacaaggc ggccgattta actagttttc 60  
 ttccggagta ctacagttac cgcttttagga gcgctgtaca ccaacagcgc ttctaagcca 120  
 tcaagggatg gtcgtttctc cgggagcgac gcgtccagct catggacgac gagtatactg 180  
 atttccaaga ggaaataagg cgccggcggt gggcatcact ggttactccc atggccaagt 240  
 tcgaccaga aatagtcctt gagttttatg ccaatgctnt gccaacagag gagggcgtgc 300  
 gtgacatgag atcctgtgta aggggtcagt ggatccccgt tgatgccgac gctatcggcc 360  
 aactcctggg atatccgttg gtgttggaag aaggccagga atgtgagtat ggtcagagga 420  
 ggaaccggtc tgat 434

<210> 21738  
 <211> 403

<212> DNA  
<213> Glycine max

<400> 21738

ttgctatctc aatccaagaa tcatatatct tgatttcaat ttgtgcccaa tattctgacc 60  
gtagattgt acaattagaa gaaagaatta gtgaaaattt agctataggg tggccaatt 120  
tcagtttggg cccaaaaccc ttcttagggg aagagctact atagagttgc aaccttgtg 180  
cctgtactaa gggggaaact ttgggggcca gggccatgtg aattccaaat ggttctgccg 240  
aaaaaagttt caatccaaag acttttgata attatTTTTT aaaaaataa tataacgtgc 300  
ctatcggagg aagattattg tagcaaaca gttctacatc atcaaatggg gttcctttca 360  
ttaattttag gttgactacc aatagtgtgc gtataatata tga 403

<210> 21739  
<211> 528  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21739

tgagcatcnc tttgatccat gataccttgc antacgaacc tatgaaactc aactaaacgg 60  
aatgcgcacc tgaggggatt ttcgctactt tattgcgact nnggcagaga gtgactgctg 120  
aaatatgata acttgagaca ctagtagatc gacaaccatg cgatacatTT ggataatctc 180  
tcggtggggg catgctatat cttgcaatca ccgtggccaa gtatacttcc tcactttatg 240  
agtacgttag cataatagcg tcgtagacga agaaataggc tagagttgac tctactgaat 300  
caggattcta aacttgcttt ggacctactc acttgagaaa atatcaacat gtttcatcaa 360  
tatttcctta ccatcatgct gatccattca ttgaagctaa gattgattgt gaggcgacct 420  
ctttgcacgt gatccgtgaa gggaacaaat gtgcaaatg ccttgaaata caagaaactc 480  
ttcttcacag gatttgatat tctcgagcta tctctctgc ctataccg 528

<210> 21740  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21740

tagcttttct ttaacaatgg gcgntgtctc taaatggaca tatatttatt cacatgcgta 60  
 tgaattntat agccattgga cgtttaatat ttgcattcaa tgcagatact tcttcatggt 120  
 agaaaattac tcttgtaaac tttcatgtag aacacttcaa cagaaaatca cttcctttgc 180  
 gtcagagcag gtttgtcata gtagggcgtg tcttttgata cttttgatct tcaaagtgtt 240  
 gaacattcct ttgtgcttct tacgattcaa caaaccttan gagaatacta tactgtctaa 300  
 gaaagtctct gcaaaacaaa tttcaaacac acaatattaa atgaagctct tacatgcact 360  
 ttttaatgct atatcagatc atggagtgtc tctgcta 397

<210> 21741  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21741

cgtggctata cgagacatct ttccaaacaa agtcagggtta gcgataactc gcctgtgctt 60  
 tttcttccat gctatatgta gcaaagtcac tgatccagtc aagtttgatg agttggaaaa 120  
 tgaggccgca attatactgt gccagttgga gatgtatctt caccctgctt tctttgacat 180  
 catgattcac ttgattgtgc atctggtcag agaaatcaaa tgttgtgggc ctgntatct 240  
 acggtggatg taccgggttg agcgatacat gaagatctta anagggtata caaagaatct 300  
 atatagtctg gaagcatcta ttgttgagag gtacatt 337

<210> 21742  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21742

tactttgcat ggaatgncaa gcttaagcct cgaaaaagtc atgctcaagc cccacgtgat 60  
 gtgtagttct tcaagatttt cttgctttgg tcccaccatt agctattgct taagttctct 120  
 tgcttcttta ttcgaaataa acaaaaaatt aagatgagaa attaccaaaa catgcatgtt 180  
 aaggctattc taatttattt acatcataaa tgtaaaaaag ggcaaataaa gtttagaagc 240  
 cctaaaatac taagataatt gcctcaaaat cactcaaaca aggttcacta ggtaattatc 300



aattgttttaa gatggaagaa gccaaatcta ttaatgagat gttcagtaaa cttacaatga 360  
tcataatata tgtattactc cctcagataa attttttgtc tagtca 406

<210> 21743  
<211> 296  
<212> DNA  
<213> Glycine max  
<400> 21743

gggaagctgt atagttgcat gcttattaat gcaatgtgga tgcaacattt tggagtcaag 60  
gttactcagt tggttggggg atatgtatta cagatcataa aggtcaattt gtgccaaacta 120  
agactatatt ttccgctggt ggtcttgatc ttatctacgg tgaagctttg ggccttctac 180  
aatgctttat cgtgggtagt acaattaagc cttccttccg tcattcttga aatggattgc 240  
aatccatat ataatcgggtg cttaatgaag tagcaatgta ttgagtgggc ttattc 296

<210> 21744  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21744

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ttgactcgtt catgggggat ccgcagctac gacaacaaat ttgtgtcagt tgggtgctgtg 120  
gatgagagag attgaaaact gcaccattgc cacgaatgag agagatcgac aaccgctaca 180  
tcattcacgaa cgagggtttt tcaatcctga actcttctgc tcaattgtcg tcaacacacc 240  
acatcaaate ctagccacca ccatcaaaag cctactatga acgagggaga ctgcaactgc 300  
tccatgacca caatctacgg agaagggttn tgaactttga ttattataaa atcaaattaa 360  
aaattattgg tgttttaaaa ccatcagtat gtgacaacta gtaaaag 407

<210> 21745  
<211> 381  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 21745

ntggcactag agtcactcaa agaagaagag atcattgtat ggatttcaga cacaatttta 60  
 ggcttcctat cacattcact tgagtttttc aacgacaatg tgaattctga gaagtactct 120  
 caagaatata aggtgaaatt caataaagtg ttgaagagcc agtggggaat agatccatta 180  
 tttttaggct catatagtca tatggcagtt ggatcaagtg gtgatgattt aaatacaatg 240  
 gcatcatata tgagggttaa cattntgttg tttgtgtatc ccaaagcaca aaggaggtta 300  
 acatagttct gagagggtgc atcatatatg agaccaggat caagtgttct attatgttca 360  
 atctcaccag ctcccatagc a 381

<210> 21746  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 21746  
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 ttttaatgta atttttttcc attatctatt taatgcaatg ttgtttttga tcattcatat 120  
 aatgtttata gggtaatgca ttgaaaaatg gttattttct aaaaaattat ggaaagggtat 180  
 ctaaataaat tcattggtag aaatagatag atatttggtt tgccaatttt tgcattcttta 240  
 atcttaatgc ggtttataat ttctatctct acaaacaata ttgggagaaa ggaataaata 300  
 atttacgtta ttcgtgtggt ataccaaaga tccacgtctt tatatatgtg ggtggatata 360  
 gggatgtcat gagatagaga atatattcac cattgcatta caagtaattt 410

<210> 21747  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21747

ctccgctgct tcttcgcaaa gaatnctagt ttttctgtt tggacccaac cgccaatcct 60  
 aaaggaagac tgcttgtggc tatacacct gaaaatagga ccgatggact gagtactgca 120  
 catggcgctg ctatcactag aagatatgac cttctgttta ttccccagta atacgtaata 180  
 tctttctgcg catacacttc cttttactac taatattgga gcatatactg cttatattct 240

agaatcatta tctgactatc cttaagcata aatgcatgac tgattatcat atgcaggccc 300  
tg 302

<210> 21748  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 21748

tctgtttgca agttttgcat catcttgggg taacttctta atgctcttaa atcaaacaac 60  
tatcatttgg aaagtagaaa gtatggcatg agaaaagcta agggcatagt gtgatacgtt 120  
tgtcaccttg ctaatcggtc ctaagccact aaagacacca gtgactttat tttgttctca 180  
cgctatgggt gaaaatgttt tggacaacaa aagtgttaat taacttgaat tctatatcgt 240  
caagggttga agcatttttt ttttaacttc taaaccttat ctttggattt tattttgacg 300  
ggcttgagat cgatgggctc tgctaacaca acggagcgat tgcggataaa ggggccgaaa 360  
agatgacagg aaatgccatt gcttcgtgta cctcatatat tgctta 406

<210> 21749  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 21749

aattctagtc aacaaagcaa aaattcttgt gtttaacact tttattttac ctaattgaca 60  
ttattattgt atacagctag acttgtgatg gttttaagct tgcttttctt tttgattaat 120  
gacagattac tgcactggtc acaacaaacc tgaacaaagt aattgatggt aattactacc 180  
cagttgaaaa tgcaaaacgg tctaacttgc ggcacagacc aattgggtatt ggagtacagg 240  
gtcttgctga tactttcata cctccttgca tggcatttga ttcacca 287

<210> 21750  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 21750

agcttttctt accggtgaaa aaacattgtc ggccagcgct tgtaaaaaaa ttgcgcaatg 60

[illegible]

<400> 21751

<210>	21752
<211>	411
<212>	DNA
<213>	Glycine max

agcttatggt	cgttggctgc	atgaggtaga	tgatattggg	agtacatcan	cattctttgc	60
ttgaggttgc	cctgccactc	gcaaccta	aaagcctcat	gcagttcctt	ctcacttttg	120
ggatgtaa	ttgaaccctg	gaaagtgtt	tttttgtgtg	tgtgtaattg	tgaagaaga	180
aaggatgata	ataggtatca	tagcctacct	agtttttgtt	taatgatatt	tatatctgtg	240
tggttgtgca	agaagaaaaa	atgagaatag	attgagcttt	ctatcaggaa	aaagtaaccg	300
tttgtattga	gacaaatatt	ggaatggcat	caattccgta	gcctgaaaga	ctgcatttta	360
tcttccccgg	aacataatac	atttgggagac	ataaactatc	caggctcaat	c	411

<210> 21753  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21753

tgtaacctat tatgactntg atgaagagca acgcatatct cttggcctct gaantttttt 60  
 ccttatcttc cagtgtgcc tttactctta ggccttgcc aaaagaatga gtatcatatt 120  
 tatatgtttg ataataataa taatattttt attttttttc ttgatacatg taaaagacaa 180  
 caacataaca taagttaaaa agatttaatt tcagttgatt gagttggata tatgagttat 240  
 tataagtttt ttaattttca cggataaaaa aaaaaaagag aactaacaca aactttttata 300  
 tatgcatatc aaattgaaac ggtaacataa tgactccttt tcctttaatt tgcttctttc 360  
 aggagagatc atcatcaatt gacatggaat catgtgtgcc tccaggattt agatttca 418

<210> 21754  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 21754

agcattgatt gaggattgta ttgttcatcc ggtgtctgaa aatcccaccc aaggttatca 60  
 aattcgagag tttaaaaaa ctgtaagag tttcatagac tcgactcgta aactcaactc 120  
 atagactcgt aagagtctac ttcatataaa aataataaca aaatatctat aaataacata 180  
 ctaattaaac atttcaacca tataataaag caaaatagta aatcataaag ttcagaatat 240  
 ttaaataatc aagtctagta ataatacatg actactaaac aataacttgt aaagggtata 300  
 gtagtggtag atcattctca ttgaggggtt gatgttatta gagaacaaga gtttgatatt 360  
 attagaggta agaattttat atttgagaat aacacgctac atgaaggat 410

<210> 21755  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21755

tctatgtggt tntaagaatg atgaagatga gaagagtttt gagaatgtat cgaaagctct 60  
 cttttgtgcg attattttgg atcctcttta gaaatgtaca accatctttt tctttcttgt 120  
 cagttggcat aggatctttg gaattgggtc agtaacttgt tgcaatgtcg cataaacctc 180  
 acgtccagat tatccatcct gcatgggtcat cagaataata gcaagcaagt tcaagatgtt 240  
 tatgttgcaa ctattttaaa tgttggttgg tataatctaga tcaatagaaa taactctaga 300  
 ttcaaattaa acatggcggt taaagaacaa gattattgcg gatgttgctc ggcangtaa 360  
 ttatagtttg gaataaatat ctacgcccac gatccaatcc atcatgttat caattntaat 420  
 aaagaaattg tctt 434

<210> 21756  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21756

agcatgatgt ttttgccatg ttaggatgag ttagacatac ccattctgnt ttagggtttt 60  
 tgtgatgatg tttgtgatgt ttatatgctg aaattgctta tggaaaactg ttagagatga 120  
 atggttgagt taacctaggg ttagaaagtg agaatgtgat gttatgagtg gaaaaagagt 180  
 gaggctttga gagttggaag gttaagtctg aattctgtgg taaatggagg ttaaagtgag 240  
 ttaatcctag cttgaaatgt catttaggac ttatgagaaa gcttggactg tgctagagag 300  
 ataaacatat gaccaaagtg aacatagagt catttctagg gcaaatttgg gtgttgaaga 360  
 gtcaaatttt gattcggatga gattttacgt gtaaattccat ttgaac 406

<210> 21757  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21757

ggcaacaatg gtggatgaga ganaagaaga ttttgctgcg tgtagagag ggagagcttc 60  
 tgaattttct tttggctgag tgaggagaga gaacagcttt tggctttaaa aagggttttc 120  
 tcttttccta ttattttatt taagctatgc cacatgtccc catttgagtg gagcaaaaag 180

ggcccacttt ctcttttgat tgtgacccat acttagtcac aaaaagtga aaaaatctga 240  
 cctttgaaac gctaaaatcc tgcctcggtt tgcgtgtcgt ttctctggtt ccagttcctc 300  
 gcgtttctct gcgtccgtcg gggccagttt tcgaaagtag gcaatatata tatcaaaacg 360  
 ctcaaaataa aaccccaagc gttgttcaga agttggtttc gttaaatttt aagtcgca 418

<210> 21758  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 21758

agctttcctt tggtttctta ccttcccaga aatagcgtcc cccaatagaa accaaagcat 60  
 tgtgccatc atacgtaact ctctctctct ctctctctct ctctcactct ttatattaaa 120  
 gctttccatt tcttagtttc aaaaaatttt ctttttctct ccacagaccc ctctcatggc 180  
 atcttcttct ggtagtttag acacctctgc aagtgcaaac tccttcacca acttcacctt 240  
 ctccacacac cctttcatga ccacttcttt ctctgacctc cttgcttctc ccttggacaa 300  
 caacaagcca ccacaggtg gttgtctga gagaactggc tctggtgttc ccaaattcaa 360  
 gtccacacca ccacttctc tgcctctctc tccccctccc atttctcctt 410

<210> 21759  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21759

ctttgcttcc aagcagctga tgggggagag tgtgcttgcg cctttgaagt tttgcaccgg 60  
 cgagaggggg gatggattta atgaggctgt tcaaagagtt gaggcagtct gtggccaatg 120  
 attggggagg ttacacgcct tccgttgtgg aggaggataa ggagtttttg gagaagaagg 180  
 aaaagattca ggagcttgag cagcagatca ctggtgcac tcaacaggtg ctatttggtt 240  
 tttatgtttt cggatgaatca cagttggatt ctatttcaga tcattagtct gtgtgtatgt 300  
 agctgtttta cttgtgttac attcttttac tgagcttatg accaatgttn taaatngtga 360  
 tcatggttgc attatttgtg caatgtaata ttgtcacaat actttacatt gcgtgcaaat 420

<210> 21760  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21760

agcttttgtg tacaaagaat aagaagtttc aaagagattc aaggcttgta aaggattttt 60  
 ttagattgat tggattgatt taaaatgcaa aacaaagcct tgctttcata gactctccat 120  
 gtctgggtcaa gaggaccatt tagaagagtt atgactttta gaaaaactta aaaccaatct 180  
 gaaaaagtca aaaaccattt gaagggttac atcttttgat ttattcagaa ataatcactg 240  
 gtaatcgatt accaaatcag tgtaatcgat tacacaaagc ttnttgtaaa aagaatgtga 300  
 ctcttcacat ttgaatttga atttcaacgt tcaagtacac tagtaatcga ttaccanaac 360  
 attgtaatcg attacaactt tttgaaatca attggaacgt tgtaaattca gttgaaagct 420

<210> 21761  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21761

tctatggagg ctggatcttt gagcttcaat gatgtccttt aatggtcatt ttccaccatg 60  
 gagatgcagc ggaagacaaa ggagaagagg tgagaggagg cgccatccac taaggaataa 120  
 gccatggaag aaggagcttc accaccaaga tgagccttgg ataagaagct tggagacgat 180  
 gcttcaatgg aggaaaagaa aaaagggaga gaaagagaga taggggagca cgaaattgaa 240  
 ggaagaaaaa gggagagaag ttgaactttg agttgtgtct cacaagactc tcattcatca 300  
 aagttacaat aagtgttaca catgcttcta tttatagact tggtagcttc cttgagaagc 360  
 tttcttaaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag aagctagagc 420

<210> 21762  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21762



ttacttacgt tgttcattct gaacgtacat cttcttgtat tgtttaacaa gggcattttt 60  
 aggttcaaca aggacctgtg tctcacacgg tattgtaaaa aacagtggag ttcagagagc 120  
 tggtagaagg ataaaaataa aaaatgatga actttacatc tcattttcag aaacatttgg 180  
 atgtgcaacc ccaaactaac agaaatggaa aaaaaaaaaag aaaaaataag aggaacgtga 240  
 taaaaaaggc acggtaggct tgaaacatct aatgcatgtc ataatcctcc agaaataaga 300  
 ttgaattttc atctttcatt tcacccgtag tgagggttga acgtttgttc aaactaacag 360  
 aaataacata gcagaatgtt atcaccagaa tgatgcttgt 400

<210> 21763  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 21763

agctggcgtg aaatggcttt atgtgattct ggcacaatct aacgttaacc atgttcaatg 60  
 aaagtaaaat acttaaatta ttactctaaa catacttttt tttttacaga taatctaaag 120  
 atacttgggg tattgaacgg gtctaaaaaa tctagacatc aatattaaat ggatccttta 180  
 aagagatgcc aacaagggtga gtctagactg agttatggag aaagattgag tcggatgtcc 240  
 ttttaaagga tctggctatg tcgttctaac ttctttgcct ttgttcgagt ttcccatgta 300  
 ctcaaccaaaa aaaaaaacag ttcttgacat caattctatt tcttatatat ataataag 358

<210> 21764  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 21764

ttagctttgt ctcatgagg tccaggaagg acaaggcggc cgaaggaact agttccgctc 60  
 cggagtacga cagtcaccgc tttaggagcg ctgtacacca gcagcgcttt gaagccatca 120  
 agggatggtc gtttctccgg gagcgacgcg tccagctcag ggacgacgag tatactgatt 180  
 ttcatgagga aatagggcgc cggcgggtggg caccactggc tactcctatg gtcaagtttg 240  
 atccagaaat agtccttgag ttttatgcc aatgcttggcc aacagaggag ggcgtgcgtg 300  
 acatgaggtc ctgcgttagg ggtcagtggg tcccgttcga tgccgacgct atcagccagc 360

tcctgtgata tccgatggtg ttggaag

387

<210> 21765  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21765

gtgaagattt ggtctttgcc agtgaattga tcgatgttgg tatgaaaaaa ggcaaattta 60  
gncatgctgc ttggacgaat gagaaaactg gggcaaatga agaggggtgag aaagaggag 120  
aaacccatgc tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180  
cattactcaa tcaataacaa acctcctcct taccaccac ccagttatcc acaaaggcca 240  
tccctaaatc aaccacaaag cctgtctacc gcaattccaa tgacgaagac cacctttagc 300  
acaaacaaaa aaaaacacca accaagaaat gaattntgca gcgaaaagcc ctgaggattc 360  
accccaaatt ccggtgtcat atgctaactt gctcccatat ctacttgata acg 413

<210> 21766  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 21766

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ttgggggtgga tccaagtgct ccgatcattc attttcatat tcatgttttg gtggcatgct 120  
caccgttggtt tgtttcttta gggaaattcac cataactaag aaagcacaaa ggcaccctta 180  
taacactcga tccagaaaaa tggataatga agagggcggtg caagagcaga tgaaggccga 240  
tctattggcc ttaaaagatc aaatggcttc tatcacggag gccatgctaa aactgcagaa 300  
aactctagag gataatgcca tggcaaccgc ctccaatgca gttagggag cggaaccagt 360  
gctacagccc acgataaact tgggccgaga tagaaacccg acggtg 406

<210> 21767  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 21767

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atagagaagt tgcaggtctt tacagcccag taggctTTgt gctctatctc tacaggaaga 120  
tgacatgcct tgccaaagac aacccgataa ggagacattc ctatgggtgc tttgtaggca 180  
gtcctatgcg cccaaagagc atcatctagc ctggtgctcc aatcctttct gttcggctgc 240  
acaatcttct cctagatcct ttttatctcc ctgcttgaaa tctcagtctg cccattgggt 300  
tggggggtgt atggtgtgtg tcgcaacctc ccctttggcg ggcgagcgag gtgagggctc 360  
acgggtgcgt cttccatagg aggaaaatgc gcggagtc 398

<210> 21768

<211> 409

<212> DNA

<213> Glycine max

<400> 21768

tagcattata ctatatatat atagtatttt tttataaaat attaatgttc gagggtatag 60  
ttatcgctct tcgtccttaa ttaataaaaag cgaattagtt aagagaatta gagaaacaca 120  
tgagggttga attgatagga aaaagacaaa taatttgcaa attaacatgg tgcgaactgg 180  
gaataacaaa aaaaacacat cacctatatc attatctctg taaaaataag ataattattc 240  
atttattggg attggggatg agaccggata tttatatcta attttttgtt aaaataaatg 300  
taagtatgaa tactataata tccatattgt cccacacatg tatatcatat atattaaata 360  
ttaatgtaat taaaatattt ttcttaagta aataattata ttatacata 409

<210> 21769

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21769

accttagaaa ctccgcttca atattagggg cataattgat tttaatntaa ttctcttatt 60  
ncttttgtat ttgactaaat agtaaatacc aacatcatat gataattgtt agccttatct 120  
tgatttcaaa ctactaacgt ccgtagtctt ctcgctccatt ttattgatac ttgattcaag 180  
gaattggttt attcttttgc atgcgattaa agatctcccg gacgcccaga aagtcactga 240

cagaagtggc gaagttgatg gtgtacctca agaatgacta catccttagt gtgtattgaa 300  
 tttcattttt attaaatatt aattatttat aatgaactaa ttatctgttg tgatattttt 360  
 cttttggctg ctggataccc a 381

<210> 21770  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21770

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 tatcttttaa aagtctcact ctctttcgct tgtaattatt tctaactcaa acaaaattat 120  
 ctttgtgaga ctcatccatt cattttgtta aatacaccct cacaagaagt tttattattt 180  
 tgaatttttt tacacaattt cattactaca actatgcggtg cgtgaatgta tcaattttta 240  
 gtcctcgggt ttgatcttct tttcactaat ttcaaaaatc taataaaacc cttttaatta 300  
 agtataattt tatttgaagt agacattatc gtattgtgac taacaattgg tttaaataat 360  
 ttactctaca tataaatata aataggtatc ttaaacagaa catttcta 408

<210> 21771  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21771

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 gtagtattta taagcctaata atcaattggt taaaatttat aagttaatat aacactaatg 120  
 tatctaaagg aaaattaaaa aaaagaacca aaataatata atacatttta aaaatataaa 180  
 aaatcagaat gaaaatttta aaatttaatg tatatataaa gtgaaaaatt gcataacata 240  
 agtgccatta agtctttttt attatatatg agaagagtga aaaaaaaaag aatgggatat 300  
 tttcatgctt cgatttaata cataacaaat cttttgaaaa attaggatnt gtgttgttga 360  
 atattttact acaaaagatc taaatcttcc tact 394

<210> 21772  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 21772

tggcttgcaa gctttgacca tttgaatggc tcaagcgctt ccattgttca atatcgagcg 60  
 tctcgatcta ttatgcgctt gaatcggacc tccgagtga aagttaagac catttgaatt 120  
 gctcaagagc ttccattaac caatttcgag ggtctcgata ttttatgttc ctaaatacaga 180  
 cctccgagtt aaaagttatg tccatttgaa tatctcgaga gcttccgttg cttaatttcg 240  
 agcgtctcta tatgtgatgc tcctgaatcg gacctccgag tgaaaagata tgaccatttg 300  
 aatatctcga gagcatccgc ttttcaatth cgagcggttcc tatatgtgat gcgcttggat 360  
 ccgacctccg agttagaagt aatgacca 388

<210> 21773  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 21773

aggcttgccct gagctgaatg actcaaccag ttgaaaccgg aagaatttga ttttaaaaat 60  
 tgggaagggg ttggggaaac ccccataaca aaaaggggca aggacacctg gaaatagaga 120  
 agggcgctccc aaaatagaca tgaaaaagga aaagaaaacg aggataaaag cgcaacaaaa 180  
 agggaaagca aaacgattga agggaaaaga aaagggacca catgaaatgg agcagacaag 240  
 agacaaaggc actagacgag cacc 264

<210> 21774  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 21774

tggcttgcaa gcttgggttcg aggtacttac ccgttgaaga tcgaagaacg atgaagaacg 60  
 aatgaagaac gtcgaagaac ggttgaaatc tttgcgaaat tcctcacgga aaacgttacg 120  
 gaaacgtttc ggaagcgctt cggcttagat tttcttcacg gaaacaatth ttccaagcaa 180  
 attcgaaaga gagagaagtg ccaaaggggc tgaaccctt ccttcttcac ttcctcccct 240

atttatagca aaatagggga ggtggttgcc gccagctcg cccaggcgag ctgagctcg 300  
 ctaggcgagc caggttgctt cctccagaag caacagcctt ctggaggaat cttctggagg 360  
 gccaaagtggg cctgggtgct atttgaccc ccatttctac taagta 406

<210> 21775  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 21775

gcttgaggat tatggggtac ccattacatg tgggtactatg tggcggtcgg gcgatggtgc 60  
 acaacaagtt ttccacatcc acaatgcgag cataaaccga ccatccctg ttgccacct 120  
 ccaactgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgggtcc 180  
 ccatcaatcc tcccaagctt ccacaacatc caagcaaac aacattcaca cagcacaagc 240  
 tatcacagcc aagcaaaaca aagcaaaggc agaaaactct gccaaaacac caaccaaaaa 300  
 tcacagcttt tcccactcaa agaccccagt aacaattcct tcgattccaa ttgttaaccg 360  
 ttggatcgac tccaaaattt tactggaagt ctatagtga ta 402

<210> 21776  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21776

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 agtcgaagag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120  
 ggacgtcaat atggccaccg ctgaagcttt ggaacgagaa accaagaagg cctgaaagga 180  
 agaacacgac caaagcaaag ttttgagggg ctttatatgg cagaaatagt gagctcaagc 240  
 tccgaagagg tgagaggaat catcatgggt caaaggcatg atcttgaagg acgagctaaa 300  
 ggcttgctt angtcgaaaa gaaatttgct ccaacagtta agcgagactg aagggaatat 360  
 gtgggccgctc atcgatgagt gcaaagagaa actaaatcta gcggcgactc ac 412

<210> 21777

<211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21777

actcacgctt caatatgttc tcagttttaa cttgataatg caggaggctt gaatgtgtaa 60  
 ngagaagcag acagctggga ccttggagta ggtatgtcac atgagaccaa tatatttggg 120  
 ccttaaataa ggctgggtct taattgaacc ctgnngcgca ctttgtgggg ctcggggatg 180  
 gggccttagt tttagtcttg cagattgttt gccttatgag gatgttgaat ttcttgaaat 240  
 tgtcatttag atatggtata ttagaatcat aatggatgtt ctgttttata ttctaccctt 300  
 gtttttgtga ctacgtggct aaactttcat tntatatact gcttatacac ttagtaatga 360  
 aaatttgtgc atatatttgc ttaanaaaat atttgtgcat atagaagtac aattntcatt 420  
 acccaattct atatttgtgt aag 443

<210> 21778  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21778

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 cattctttat ttctaagcca ttggccaaac agctgtccca atgtacatta ttttctgcca 180  
 tttgcaatcc ttttgagcca aacatttgat ttttaccaga atcctgacct angatgaaag 240  
 tttcctacct tactctagga taggagagca ggggtgtttt tcaagggaga tttctatcat 300  
 cttttggcta gacatggatt tttaaaggga gttaaataat catcaaaca aaacaaaaga 360  
 gaagataaca agaaaggaaa agaaaatcaa tcaaagatgg aaaat 405

<210> 21779  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21779

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 attttgcacc atggagatgc agcggaagac aaaggagaag aggtgagagg aggcgccatc 120  
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180  
 gcttgggaagg atgcttcaat ggaggaaaag aaagagggag agaaagagaa agggggggagc 240  
 acgaaattga aggaataaaa aaggagagag agttgaactt tgagttgtgt ctcaagagc 300  
 tctcattcat caaagttaca acaagtgtta cacatgtttc tatttataga ctacgtagct 360  
 tccttgagaa gatttcttga gaaaacttcc ttgagaagct tctt 404

<210> 21780  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 21780

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 actatagcat catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120  
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tatttcggag tccttcataa aaatattgga gaagcagctg ctctgaaatc 240  
 tgatggtgag ggcaactggc acatagtttt ttaaattctt cccagtattc atacaggctc 300  
 tctccactga gttgtctaatt acctgagata tccttcttga tggttgtggt cctagaagca 360  
 gggaaaaaat tttctaagaa tactctctta aggtcatccc agctcgtgat gg 412

<210> 21781  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 21781

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 ttgactgtta gcaaatcaca cgtgatggtt gtgtaactta tgtgtgaact tgtgcaagaa 120  
 ttttgtttgg atattttgga atggattgtt ggaccttttag gtcataatttg tttgctagtt 180  
 catgcgggag aatagagact cacctataca cccaacattt ttcaaataaa cttatagatg 240  
 tagttcgttt atcaaagaag aaatggattt cactacatca atcactacca gtgtagatgg 300



acttggtcgt gaaagaaaga cctttcaagg ataccgtag acattggatg acccaaccat 360  
 cttttagagt tttgatgaaa acaaagatat aaatatgtgt taatcaat 408

<210> 21782  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 21782

agcttatctt ccataaatc ctatctttaca tttaacaaca atcaaaattt gactatgggt 60  
 caattataca ttttatacgc gtctttatct cactttttaca aattgagctc agatccatta 120  
 tgataactat tacataggcc cagaaaaaat ggggatcatt taagaaaaag ggagataaaa 180  
 gaaaataata gcaaatcgtg tatgggtacct aatagagctt cttccttcat caaactcttc 240  
 ttccatatac aaattattct caaaattatg tcaccaaaaa attcatttcc ttcttttctc 300  
 tttcaaatca attttttaaa gtatataatg taaagaaaaa atgggcactc atttgaaaaa 360  
 aagggtgagc aaagaaaata ataacaagga aattcatggt atgaacatgt a 411

<210> 21783  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21783

acttaaccct ggcatttatc aagaaattta ggggtctatta tatttatact gaagacagtt 60  
 gcaagtctgt actttgttca catttcaaac tcagtagatc ttcacttcan aagactttgg 120  
 ttagagatat aaaactatct ttgtacattt catttatcca gaaatttagg gtaatattat 180  
 actaaagaca gtcgcaagcc agtaggttca tatttcaaac tcagcagatc gtaattnttt 240  
 agaagttcac actgagaaaa caaatgaac aaggccgcct aacttaagga tattttcctc 300  
 aagataaaat ccacacatc ttgtaagaac tcagcccaac taggtggaaa tgcaagctca 360  
 c 361

<210> 21784  
 <211> 392  
 <212> DNA

<213> Glycine max

<400> 21784

agcttgcttg tacaatctat ggcttgggtga tgatgacaac gtctgatgtc atgaatcaca 60  
cacacacaca cgctgtttga tagtcgagca ctgcgatata tgtccattct cccacttagt 120  
ctttgaattt atgctcctct taagagtaag ttgattactc atgtgagtta tggagttaat 180  
ccctatatct atcccccttt ggcatacaaca caaaacaaaa gtgcatgact agtacgaagc 240  
attcaaagac gactaatcat ccacacaaca tgcataggaac aatataaacc aaatcatgag 300  
gcatgaacca tgaatagatc atatatatag cagccacata tgtaaataac ataattaatt 360  
ttgggttcaca cataccatgc caataaagaa at 392

<210> 21785

<211> 304

<212> DNA

<213> Glycine max

<400> 21785

tagccctaga ggtgatggac ctgcacaaga tctggagtgg atcaataaca atgcctatag 60  
gtcggacctc ccatataagt gtggagtcag cccactctt aacattactg agatacttac 120  
ttatgcacgt gtacatgatc tggatgagga ggaactaaca gatttgacgt cccatcctct 180  
gccatgagca aggcatagat caatccttcc tatgacggga ccagccacta tagccatgag 240  
ccatacgctc caagaggatt gggctagagc acctgatgac agccctaagg atctcatgaa 300  
cctc 304

<210> 21786

<211> 406

<212> DNA

<213> Glycine max

<400> 21786

agctttgcag atttggcctt cgccagtgaaggatcaatg tgggtccgaa aagaggcaaa 60  
tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgaa 120  
ggagaaaccc atgctgtgat tgccattcct gtacggccaa gtttcccacc aaaccaaca 180  
atgtcattac tcagtcaata acaaacctcc tctttaccca ccaccagtt atccacaaag 240



gccccaaacg agagtaatga ggccagctta ccttccagac tatgcgtaag gagagaaaat 180  
 ggattagagg gatactgccg atataacatg ggacaagctt aacggtattg attctgtgat 240  
 attcctgttg caccacatag ataat 265

<210> 21790  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 21790

tagcttctca aagtataaac ctttgcagta tagttagcaa gtttttcacc tagatgataa 60  
 gaaactacct agatgaaact ctctttacat aaccagctaa ctgagatcac aaatagatca 120  
 agaagaatga gatagaagaa tgaagatgat gagagagatc tagaaatcta gattgagggg 180  
 taaactttct ttggaagaga gtggttgaag aggaagatgt gaatgatttc ctttgaccaa 240  
 taaagaatat tccaaagggtg tggttttggt agattttatg atcatgctct tggatttgag 300  
 gtgaacaagt ggttcaagtt gcttgctggc tttttgttga gagtgatgct ggaccgattt 360  
 gagacgcgta cctccgtagg gtgccatcac atggaaagta aataaaa 407

<210> 21791  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21791

ttataagaac aaaattgcct taatcatttt caaatatggt tgtgaattan gacgcatcaa 60  
 caagaatcaa gccaaaggcta ttgtgcaagc aatcaatggg gcaaaacaca ccaaatgatt 120  
 ataatgatgg atggctcaaa ttctcacaaa ggtaaaatca tcactttcaa attgagcttt 180  
 caaaactatc atgacatgta gagaagaatc aaggatttca agtcacaaaa tgtcaagaac 240  
 ttttattttc aaaacaatta cccattttctt gaacatatcc tataattcan agaaaaacat 300  
 gcaaagtcgt acgtgcacac gaaaaatgac ccaaatatta aactgaaaat ccgacgaaac 360  
 taacaacatt aacaaattaa cacaactaac aaattacaaa accaacaanaa ct 412

<210> 21792

<211> 393  
 <212> DNA  
 <213> Glycine max

<400> 21792

tatcttgaac cataaccggt gagagtgtga tcttaaaccg tgagtgaacg actagctttg 60  
 agtaatagtc tttgcatcaa tctctgaaat ttagaatgga atgtatgaat gaggacatga 120  
 tgaaggccat aattgtgtat atacaagcca agtgacccaaa aagcttacct tgaatgataa 180  
 ttgtatcctt tgcacccttt gtgagctgaa tgacattttc aaaattgaac cctgaacata 240  
 aatgattatc tccagatagc ttgttttagat tctagcagag cagatagctc aaggaaaatt 300  
 accccaaatt tgggggagtt gattgggatg taaagtaaaa ggtaaagcat cggcacacat 360  
 aacatataag ttgtgtgtta aaaaaaagag gag 393

<210> 21793  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 21793

tccatcacat tgataccttc ctaaagaggt ataacatgta aacttagaag tgactatttg 60  
 ccaataggaa ttggagtcac tctaaatatg gaggattttc gtaaaactca tgaagtgaga 120  
 gagtacataa ctagagtatc atatgctagc atagtaggag ctattgtata tgacacgatt 180  
 ttcacatgtt ctaatatcat ttatgcacta ggtgtaacaa gttgatatca agaaagtctt 240  
 ggaggagggc attgaaagtg ggtaagacta ttcttaatac ttaagaagaa ctaaagacta 300  
 tgcctcattt atggagacac aaaattaaaa actaaaagta gtttgatgag cataagttgg 360  
 aattagtaat ggaatacatg agtgatgggc tctagcgcaa gtggaag 407

<210> 21794  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 21794

ttgctttttt caactttcta tcacctggct tcacccatgt tggaaaccct tctttgtaac 60  
 ttggttcttg gtatggaacc ttgttaaggg ccaagggtgta gctcagcaac ttagtaacat 120

tggtggacat caaagggaga acgtagtctt gaacaccaag ctcatacaac cgggctttgc 180  
atgtctcaag gttagtgaga gctgcgctga gccatgtttg ggcatcaact tgtgagagct 240  
tggtgttatg ctttatgggtt tggctgagat tgcgaatagt ttgctcataa agctcaacac 300  
aatcagccca tgcaactctt tac 323

<210> 21795  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21795

ttatatcaac gcaagngaatt nttgntcccc ttacatatat tcaaggggtt cacctctcaa 60  
aaaaataaaa atattcaagg ggttcaagac ccattacatc ttgataactt ctaattaaca 120  
aagcccattg acacaagctt ctcttataag aattagggta tattttaagt catctgcaaa 180  
ctcatccaat acacaatatt ttataattta taattatttt aacagttaat tatgagtaat 240  
aattctttta agttaataca ttttgcataa tgcacctctt tgctttgata gctgaccttg 300  
aactttcagt ctagccttat cctcttaagg acagtattct catttaggcc atctgtatta 360  
tgagccactt aagtcataata cgctcgggt a 391

<210> 21796  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21796

gaagaggnat gatgctcatg acgcctgaga cccggcattn gaaccgccag gggacctcag 60  
ancaactttg ttgcagctat ataaccagcg gccttgaggg gctacaacca tagatgacag 120  
ccacctgag gcctaccaa gagatgaatg gagaggtagt gtagaaacag gcgtgagccc 180  
atgcggggac acacacctag ctatcgccct agataccctg agactaaata taaccacta 240  
cagcaaacgg cttgtgaaat atcccagacc cagttacgaa gtttctgatg gacaacaacc 300  
cagagaacaa tggaaccag ctaggttgtc atgaccagaa cgggacgtgc ggcaaacat 360  
ctaggtccta acaggagaaa agccgct 387

<210> 21797  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<400> 21797

ccatagctga actgactgaa ctgaaacccc aagatatacg cgaagaatac tcttttagaa 60  
 cctttggagc gaggagtcca ccagagcaac caagccgtca cacaagcaa cgcaaacagg 120  
 ggaaaaaatt agcggccagg ggcacgggaa agcaaacagc atatgagcta ggaatggaga 180  
 gaccaaagga cactaacaga cacgccggaa gcaaaccttg gggaggagct tcacaaaaga 240  
 caaatgcc aaaaagcgcg aaaaggcgct agcgaactat gacaaatggc aaggag 296

<210> 21798  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 21798

agctttggcc agaggtaaac ctttcatcag gtctttcttat ggaattaaag tccccaaaa 60  
 tacaccacaa ccccccaacc attgactgtc tcaaatgctt tactgtatcc cacaggattc 120  
 ttttactatt tatatcacat ggtgagtaaa tagtaacaat tgtgactatt tgtgcttctt 180  
 ggaccatttc cccaaccatt aaaataaagc cagtaccact gattttcctc tgcaatctaa 240  
 aagaattatc accccacaaa caaagaatgc cacctgctga atttatagct ggcagcattt 300  
 cccaatttat ctctacatgt ccccataaag cctgacacat ggctttgtcc accaactcta 360  
 tctttgtctc ttgaagacaa atcatgtcca ccccc 395

<210> 21799  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21799

tcacttggtt caggcctaatt gtgtttcgtc aagagcagac ttgacagatt ctagtgtca 60  
 gatcaatggc tagtcatatg gctgacaca tccaacatg ttcttcacag agattactct 120  
 gaccattgcc cggaattttt gaaaactaaa ctggttgatt ggggtcctaa gcccttagg 180

gtgctggact tatggctcaa tcaaaaagga tatcaaaagc tgggtgcaaga gtcttgggtct 240  
aaggaccagc aggggtggatg gnggggcatt gtccttaaaa acaagctgag aaatcttaaa 300  
aataccatca aacaatggag taaagcta atgctaatag aatccagaag 360  
ttgagacaga agcttaatga cttggaaact acagct 396

<210> 21800  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21800

agcttgcata atagactccc tccacaaatt gtttgaaaag agaccgttta gagaataagt 60  
ttgtaaaaaat aaccctacct gggtcattttg ccaaaaaaaa acttttatca acaatatatt 120  
tgtgattcag tggaaagcaa gatctaaggt tgtatatatc cttaaactcat tgttgtgata 180  
atattgatgt taatattcat tttgatttca cttactatta gcatctttca ttgaagaagt 240  
atgcttatac acgaatgaat ttggagcata tacaatcaa atgatcgaac tatacacaaa 300  
tgaatttggg atgtcactcg gtttcttgaa acatgtgcag gagcgtcgtg aaaaacattc 360  
tggcatcttg tgcatgcact tcttcctttc aatntgccaa cgatcaacaa a 411

<210> 21801  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21801

ccggtcggaa ctgctctgcc gacgctggag agaggttctt cgctgctcat cactacctcc 60  
ggcagaggag agaccttggc gccgatgagg attaactacg ttaggggttaa ggtcgcggat 120  
gtgattcgca acgtgaagat cgtggtgcat agtgtgtatt tgccgtttcc acatattaat 180  
cctgtggctg cggcttatga cagtatctta ngcggtggtg aaggagcgtc ggaaggagcg 240  
gggaatattg cagattctgc agatcagacg acgcaaggga cgtgttctgt cgttgacggg 300  
cgtggaagtt gcgtcttgcc tacgatgcct gatcaggttc aggtcaagcc aatggtggag 360  
atcgaagacc accatggcct gtgaataatg ccatatattc atccacgatt atcttttctg 420



aagtgaaact t

431

<210> 21802  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 21802

agcttcccat atatggagag ctaaatectc tattggttct tccttatagg tacttgatgt 60  
aaatacctat atatctatct aatgatgttt tatgtgttct ctgtgctatc agtacatcat 120  
ttcagtgtgc ttttgccttg atcacgtaga tgcagtcttt gttaggatca ttcaacagtt 180  
gaaactgggc tgattcttag aatttgatag gatagggcta gtttatcgta ttatcacgag 240  
ggatcagggg atggtaacct agttgtttgt atgtttgtct taatgcagtt ctagtcgagt 300  
ttagtccaac aagaggaatt tgaggataat gcttgatcag gattaggcta gactatcacg 360  
agggatcgag gtttagcatt ttaggagaca ccatagaaca catgagcat 409

<210> 21803  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21803

tcattcttgt acaaagatgt tgttaaatct gtcccttttc cctcctttat cctcccaagc 60  
caaccctaata ctatcacatg atcttctaac actgttaaaa tcacttatca cacaccatac 120  
ttttgtatta ctgtcttat ttctctctct aagctcccc cactcttc tttttgtcc 180  
attgccgaaa ggaatataga cattgccaat ggtaatagcc acccattct ctttccaaca 240  
tccttataaaa gcaatgcatt ctgtcccat aagtgatatg aaatttccaa gaaggccgga 300  
cccataaac acaagagagc tattgcttaa tttaaagccg gagaagccaa actatgttta 360  
agcataaaac tgaacccctt ccttcgtcac tatgtttcag atagatntcc acttcacct 420  
acta 424

<210> 21804  
<211> 409  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21804

agcttcctct accggtgata aaacattgtc ggccagcgct tgtaaaaaaa ttgcgcaatg 60  
tcggctgaaa aacatcagtt ggggctgttt aactaccgat gctggctact gttttttcta 120  
ttccaccctt gaataatact tggacgatgt cgatttgga atgttcgatc ggagtcattc 180  
ggatcatgctt ctttttaaga cctcgatctg tcattctttc ctggccgacg tcggctagca 240  
tttttttcga tcaatatcgg tgaatcatgc tttttgcaa ggtgggctaa cgttttcgtg 300  
gctcatgaaa tgagagcatg ccagtgtcgg ccganacaca atctcgcacg aaaaacccta 360  
gccgacctac attgtaattt ttgtaggcaa taccgaacag caaaacttc 409

<210> 21805

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21805

ntgcagcaga atttagtaat gaccactaa cctagaatta aaataattta ttgccattaa 60  
cctaggggaat taaaaaaaaac ttaatggctg agtgtaactg aaattgtggc aaccaaaaat 120  
cacccecaac agccaacaag tcagccacca tttggtctcc caaaaggctg atgcctaggt 180  
tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagttgatt 240  
aaccceaaaac atatttttgg tcagccaact ttacaaggat tgggccatta ttagacaaa 300  
cactctaaaa ttgagacaag gtggtgtcat ttagtctctc tccatttggg ccatgatata 360  
actcacaacc ttggactntt ctcttgaaa cttgggcttg tattcaaata gtatggacaa 420  
cacttggt 428

<210> 21806

<211> 412

<212> DNA

<213> Glycine max

<400> 21806

agcttgatg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcaatggt 60

gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgcccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacacgggt 180  
 ccccatcaat cctcccaatc tttccccaac atccaagtaa ctcaacattc aaacaacaca 240  
 aaccatcaca gccaagaaaa cagggcaaag gcagaaaatt ctgccccaaa caccaaccaa 300  
 aatcacagct tttctcactt aaaggcccca gtaacaattc cttcgttcca attctttaac 360  
 cgttggtatcg actccaaact tttactggaa gtctctagta cataagccta ca 412

<210> 21807  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21807

ntntggagta gaaacatggg accaactcat tttatttcaa aaaggaattc gtatctagtc 60  
 aaggtctgag agaccataca agtttccata cgatttctaa ttatgtgggc cattaagtct 120  
 atcatatgct gacaatagcc gagaagccca tgaatctctt cggggggcgga gtaagtgtcc 180  
 gccactgctt tggccttggc tagcaatcgg ggaagttctt gactcctgtt caaagtaaga 240  
 gcaaatcggg cgtccacat tgttgccctc tgggtgccatg aatcaattac cctctccctt 300  
 gcttcgcttt ctgctgatat cttggcgtag tcatcctcta gcctttgctc gtgagtcgcc 360  
 gctagatata gcttctcttt gcaactcatcg atgacggccc acatattccc ttcagtctcg 420  
 cttaa 425

<210> 21808  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 21808

tagcttgcta cattgccatt tctgtaagtt ggtatctgtc tttatttcgc acatgcttat 60  
 gtgtgtatgt gaatgatcaa acattttttac tttatgtatc agcatcatgc ataattctta 120  
 tttacatggg tatttcattt tagttaacat ggctaattggc taagatagca tattactaat 180  
 taagaattac aggggtgttta aaaaaaactc ttggctaaat gagacagttt tgttgatc 240  
 atgacttcta ttatctttca tatcagaggg ctttttttaa tgggtataaaa cagtgtctat 300

tgcttaacat agagattctt attggaacca ggttgcaagt gttttgaaca ttttggatga 360  
 tgagttgatc aagaatggtg gagacta 387

<210> 21809  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21809

tgttagaatt gttggtcaat accatcattt acgcttttat taaccaatga cataacttaca 60  
 aagaagtgaag agaactatag ctagttcaga gatggtgaag atcgaactaa acaagttttg 120  
 attaacagtg gctgtttttg ttttaatatg attagagata tagattagtt cagttaatta 180  
 caagttaatt attaagttag ttaattagtt acaaattagtt tttttttgta accaattatg 240  
 taacattact agcattagtt atataaggat gaatgtattc atataaaaaac tgatttactc 300  
 attntagca ttatccaaat taatattcan gttttctttt ctcttttcat ctttctatct 360  
 taactttatc aaatagtgat tggaacacat gc 392

<210> 21810  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 21810

agcttatcta aacctagaat tagctaattcc aaaagatatt gttaaagtga aataggtatt 60  
 gtatattatt aaactatctg tagcattgca tccattaatt ttttaattgta caaaaaataa 120  
 gatgaaaaga ttataaaaata gaaaaagaaa ttgctttgta tttgttttaa attattaaaa 180  
 aaatagaact attttttcgt acaagtttga aagcaaagaa gaggtattcc ccacagtact 240  
 cacaattgaa gtggctgcat tctaataatt tcatacagat gttccttaaa tattgtgtat 300  
 catttatagg aatcttcacc actcatatgt tatttatgga cttataaatt aacataatag 360  
 agttaatgga ctatgtctaa caaacttttg ttcagagact aaaatc 406

<210> 21811  
 <211> 343  
 <212> DNA

<213> Glycine max  
 <400> 21811

tagggattac ggatacttta ctaagtatga tctactatta tttgacaact taatgttttag 60  
 ggttttagggg tatttgacaa atgacgattt ttatgtagtt tagcacttag ggttttagttt 120  
 tacctgacta attcgggtta aaggttattt gacctattaa ggtcacttgc ctaattacgg 180  
 attaggtata ttcgaaaaat taaggttact tgactaatta tgatttatat gtgtctaact 240  
 gattaaggat atgaatacat gactgagtag ggtttatatg tacttgacca actatgggtg 300  
 agggttatat tacctatttg tttacagata catgactaat tat 343

<210> 21812  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21812

tagcttggtta tcctaggctc atcttggtgg tgaagctcct tcttccatgg cttattccct 60  
 agtggatgac gcctcctttc acctcttctc ctttgtcttc cactgcactc ccatgggtgga 120  
 aaatcaccat taaaggacct aattgaagct caaagatcca gcctccatag aagccccaca 180  
 agcaagcttc catcaagtgg taatcagagc acaagagctt caagtaggtg cttcttaaac 240  
 ctccattaat tttttgcttt accttctctt ccattgttgt ttcttcattt ttctccatgt 300  
 atctcctcac atttcttgct ctaaagtgtg ttaacatgat tcttttagagt ttccaccgat 360  
 taaacttgct ataaaagcta gatntgattt tctatg 396

<210> 21813  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 21813

tagctacaca cacctctcta atagctaagt tcacctcttt gagatgagaa gctagagctt 60  
 agctacacac ccctataat agctaagctc acccccatga gaaaaaacat gaaaatacaa 120  
 aaaaaaagt cgttactaca aagactactc aaaatgcccc gaaatacaag gctaaaaccc 180  
 tatactacta gaatttccaa aatacaaggc ccaaacgaag aaaaaaccta ttctaattatt 240

tacaaagaag agtggatcca accttgaacc atggactcaa aaatctaccc taaggttcat 300  
 gagaacccta gggccttctt tagtagctct agcccaagcc tcttgagtc ttctatctaa 360  
 tacccttgg gggtaggatt gcatcatccc ctccacctgg aaa 403

<210> 21814  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21814

tttgcttgtg cttttatgaa aaggttcatc gagtcaagtt gaagtatgga agtaaccatc 60  
 ttgcaaaana ttggggcaaa agatggatcg tgtgacatcg ctcccttcgtc tacggccaaa 120  
 cacatttagg gctgttgata tccctgttac ttccagtttc accttgacgg agatgtcatg 180  
 gaccatgttg aaaatctaaa ttgattcaac cccatatact gtgtaaaaat tcacaatact 240  
 tcaattgtgc atcattcgca tacatccatg ttgttcattg gttgcattgc tcattgcatt 300  
 ctttccttga aaagaaaaag agaacctaatt cattgttata aanaagaaaa aaaaaggcat 360  
 gctttacggt gccctcaccg aacctatgct agagctagag taatgggt 408

<210> 21815  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21815

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 ttttgtaggt ggagctgata ttgaggagga agaactaaca gatttgaggt caaatcctct 180  
 tcaaggggaa agggatgatg caatcctcct taggaaggga ccattcacta gaaccatgag 240  
 caagaggctc caaaaagatt gggctaaagc tgctgaagaa agccctangg ttctcatgaa 300  
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 tagactanga tgtcattat 379

<210> 21816  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 21816

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 ataatgcggtg ttttaacatta ttgcttcatg attgtttcct tttcttttgt gtgtgcagaa 180  
 aatatacatg tacttccggg ggcataagt agactgttct cttctggatt ttgatccgac 240  
 ggcttttata atgtcaatca cttcacaatg tggttagca tattcttttt gtctatcctc 300  
 attttctcat acaatatctt ggtgtgatat tggcttctgt cttttagtt accagggttt 360  
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<210> 21817  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21817

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 aattaaagta ttattatatt tttaaaaaga ataaaatgtc gagaaattag atcatattat 180  
 gtatgttaca aagttacgta agtgaatatt atatgatcaa tgatattggt ttcaccttcc 240  
 atggaactca gaaactgttg tgctgaaatt gaagatttgt gcaactctt accaatcagt 300  
 ttctcccaca tttgcacaac ctctctctgg gataatatgt tttcaggtgg ccttatgtaa 360  
 actgtcttgt tccgtgttct ngggtcatct atggttttga tagtggacat agctatatca 420  
 tcttcat 427

<210> 21818  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21818

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gggggattcn atcgtgcacc acagtcactt cctcttcgaa cctaaagctt gcgctaacia 180  
agctctcgat gaggtgacag ggaggggcct ccttcacatg tgcccttagc tgtggggcag 240  
tgccccgatt tctcttttcc tagctgtttt tccttatgtt ggcttgcgta ggcttatatc 300  
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tc 362

<210> 21819  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 21819  
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tcctaataaa attcgggttg ctgtttcagc agttggaaaa atgatttcgc cttcttggcc 180  
attctcagta gaaatcaaga tagagccacc agtctatoga tcaacttcta tacttccttc 240  
atgttttgtg ggctgcacat ggcagttcct acttcgtact tgtttgggtt ggcttcgac 300  
cccctgcagg tgattcatga accaaggaac ttaccccttc caaccctg 348

<210> 21820  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 21820  
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aaaatgaaat atgcaaaaaga aaatttgaag aagtttcaaa cggaggaatg caaatctgtt 180  
agtacacaaa tgaatcaaaa ggagaagttc agcaaggaag aaggcgttga taacattgat 240  
gaaggatatt atgggaactt gattggatgt ctaatgtatc tcaactaac gagaccaaac 300  
attctatttt ctcaaaaaga caaaactgga atttttgtga caatcaagta gtcattgcta 360



ttgcaaacaa tcccgtgtgt catggaaaga ctaaacattt c

401

<210> 21821  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21821

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attgccagag gaagttaaaa tacaccccggt attccactgt tccaagatga agtcttttcg 180  
cggttcaccg aanaatatgg cgggaattac ctggcacaag gagttactca acgaccaacc 240  
cctcgtgttt ccattagcta tcttggatta ccgtagagca tccaccgagg atccctgnga 300  
gggtgttcatt caatggaatg gtatctcacc tgatgatacc tcgtgggaag actggaatca 360  
gctgtgtgaa aactaccacc ttg 383

<210> 21822  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21822

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tctcgtcttt acttttgggt aagtttcaat tactgttctt tactttctta acttagtagt 180  
aaaagcctaa ttaaatctag taacattaaa aaggataagt tttaattatt caaggtacaa 240  
taataattaa ttcaaccccc cttctttaat tattctgagg ccacttgatc caacacctct 300  
ggcatcaact gaagtttcta ctctatcgt tgctgcagat gttgtccgtc ctactgatga 360  
tggtgtatta cttctgtctc tccacctcct tctactatgc ct 402

<210> 21823  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 21823

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 tatgtatatt gttatttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180  
 ttctatacca attctaaggc atgacagacg tgatccataa tcagtggcat ctgatttatt 240  
 ctatgcatta taaggtaa at aaatatagaa tcaaggtaac ataggaaagt aaatatatac 300  
 acagcatatt tgcaatcatg tagaagatat ttcttaatac tccccctcaa gttggtgagt 360  
 gaatatcgtg aagtcccaac ttgttgcgca atgtcacaaa ttgatctntt tccaaagctt 420  
 ttgtaaacac 430

<210> 21824  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21824

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 gcttaatttg gcaacctcag caagtgattt tattctcctt ttggaaacat actatatgat 180  
 ggtttatagg tcaa atgagt tatttgatct ttcattttat ttgttagggt tattttgatt 240  
 ttttatcttt taaaaaattc attttaatct tttatatatt tatttaaatt gatttaaaat 300  
 gatcttttca tctatataaa attgatgacg ctaatgaaat aaaaatatta ataactaaaa 360  
 attatcacia aatgtaattt tcttctttat cttgtgcttg gtgtg 405

<210> 21825  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 21825

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ggggatctta acagcatctt gttagagtta gttatgatag ttattttctgt tgtaaccact 180  
 ctctgtgcttg tacatatata agccctcacg tgcatttaaat aagatgagtt gcagttttga 240  
 tcatcaagag ccaagcgtag cttttcactg caccacctga tttttttctt ctcaaaaaca 300  
 tgagtttcac gttttttctt cagcttagtt caatatgtgt tttcaacagt aagtttagcat 360  
 caacaaatat ataaaatgct tggcagagtg tacattacta tactacctac gtgcttatct 420  
 att 423

<210> 21826  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 21826

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 aaatcaaaag atcctagcca gacgtatatg cttccccatt acatcaacca actggtgggg 120  
 caggactaca ttaaatatct catagccttg ggaaaaagga aactgtccat cagctcaccc 180  
 tttttagcaa tttcagctaa cttgtcctat gatcctatcc aattctcgta taaaaagatt 240  
 gatcaagctt atattttctgg attttatttc ttcatttcaa tgcccaatca gtgtaacaga 300  
 ccttaccaca aacattctag gtgtcccata tttgtaaaaa aaaaaataaa aaaaaaaaaa 360  
 cttcgtaccc ca 372

<210> 21827  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21827

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 gctcttgccc agcaatacgg tggctctgct gctcacaata ctgtatgaca ttttggggga 120  
 atctaaatnt atgtaatctg ccgacaaata tctaactgct tatttgcata ttcttctgca 180  
 gctgtttgtga tatatgtaac atatattttg gtgaatgaca ggtgtttcca gagaggcatg 240  
 gaaagtggaa agcaacaaca caatccagag agttttttaa atccataaaa cgatactata 300

gcaatgctta cacagatggg gaanaacaag atgcaatana cttgtattat tccttccacc 360  
tcatttatct caata 375

<210> 21828  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21828

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gccaatctct ctttcaagga cacattgtca tcctctgat ctatatgtc caatgctcct 120  
ctatccacaa aatttaccat tctgtgaggg acaaaagcct taagtaaaat gagttgcttc 180  
ttaattaaaa ctctatttct tctcgtagtg cttcttctgg ggaaagtact ccagacttat 240  
ctatacatgt ggcatgacaa gtaccaatga tcaatgagag taagttattc caagattttt 300  
tcaccagttg aaaaaagatt aaataccaca gttccaacca aatacaaccc aactgaaacc 360  
ttgaaaacat catcccagga gcctgaanat agtc 394

<210> 21829  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21829

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aaaagtgcga gaaaacgagt tttgttttct gcattctctg gaaaacgtga tgaactcgct 120  
aaccgagaat actgcgctaa gcgagttcat caatactcat tgtatataag atttatctga 180  
agaaccagct aagcacactt attgcgctaa gcgagttcat cctttgagaa tgaacattca 240  
tcctcttgcg gaactacctg tggctaagcg aggctaaatc gctaagccta ggtaacttaa 300  
ccattntttt tttgtgatag ccacgcgcta agctgagcat tcttgagcca agcacagggt 360  
gtggcatccg ctgtgagttc ac 382

<210> 21830  
<211> 397  
<212> DNA

<213> Glycine max

<400> 21830

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taagagtaat gtcccactaa aactaacttt ccaaatgttt gccttcgcag gaatggcacc 120  
gaggaagctt gcctcaaaga ggtccaggaa agacaaggcg gccgaaggaa ctagttccgc 180  
cccggagtac gacagtcacc gctttaggag cgttgtagac cagcagcggt tcgaagccat 240  
caagggatgg tcgtttctcc gagagcgacg cgtccagctc agggaggacg agtatactga 300  
tttccaggag gaaatagggc gccggcggtg ggcaccactg gttactcca tggccaagtt 360  
tgatccagaa atagtccttg agttttacgc caatgct 397

<210> 21831

<211> 236

<212> DNA

<213> Glycine max

<400> 21831

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gaaaatattt cgggctctcg tgtccgtata atgcattcat atcatgcac gcataagcat 120  
ctttcataa catcataatg gacatatcct gcatttgctc gttatatatt tcagcctcac 180  
cttttgcag agtcatggca tcatcatgca tatgogttca acaaactctt tgatct 236

<210> 21832

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21832

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atttaacaac tttggatgga gaaaacctac taaaatgac aatcagattn ttggatggaa 120  
aatagctgaa taaacttcaa caaaattgat taatacttta cacttttaat aagaaaaaaa 180  
taattgtaca actatgtgat ttaaaatgaa gataagcatc tgtatactt tcacaatttg 240  
gtttatatat tttgttcgca caacttgcac gaattacatt aacaaaaagt taacagacaa 300  
ttaattaatt tattattata cattaaatga gtttttattt tgaaaaacac aataatttct 360

ttacattctt tatttatatt ttttgcacgc acatctcttc tttattttt

409

<210> 21833  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 21833

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ttgttacttt cctgtatat gatgagagat tgcttaagaa ctgttctatt tgctgtgatg 120  
acaagccagt gccaatatg attaccttaa aatgttctca cacattcttg tcacattgct 180  
tgagggccta tgctgatgg aaagtacaat cttgtcaagt cctataaga tgccctcaac 240  
caggatgcaa gtattgcaca tctgtaactg agtgcaagtc ttttcttcca ttcacctct 300  
ttgaatctct ggagaaatcc ctgtctgaag cgaatatatg ctgtccacat agaatttatc 360  
tgccatatcc aaatcgctct ggtctccttg atcctcat 398

<210> 21834  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 21834

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ggagtttctt caccatcata tatggtttca attggataaa gccaaattca caagagaaaa 120  
gttgaggctg ataaggataa aagctacatc tttgatattg agactgtcgc aacgtgccct 180  
tcgcaggcga gcgagggcga ggctcacggg tgcgctttcc aaaggaggaa agatgcgcgg 240  
agtcgccacc aacgtttatt cgtggaaaac gtcgggaaaa ccgaacgaaa gcggtcaaaa 300  
tgaaaattct aagtcgggga gttgtattta cgctcgagga aggtattatc acctctcacg 360  
tttgtctcag aggacaacag cctatctt 387

<210> 21835  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 21835

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 cgaggcgctt ccgtaacgct tccgagacgt ttccgtgggt gatttcgcga agatttcaac 180  
 cgttcttcgc cgttctttgt ttgttcttcg tcgttcttcg gtcttcaacc ggtaagttcc 240  
 caaaatcgaa cttttcaatc cattctatgt acccttagtg gtccccactt gtttcgcatg 300  
 cttttatattt catttcattt actttccgta cccctttttg atgtgcttca gtcatttatt 360  
 taagtcattt tctcgcttaa tccaaaataa gataaatttc caccgatcat tcgtattat 419

<210> 21836  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21836

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 cttatagcct aaaccatact tcccacgatt tcctttggca tttatcaggc tagttatgnc 120  
 cgccgttgctc tttgccc aaa ccattccgg gtctgtaacc gttccccaac ataactcggg 180  
 ccatacattac tgctgcatcg gacaggcaag cttgcccaga gaaggagtcc acggaggaaa 240  
 tgcttaccac ctcaaaagac tggaaaaagg tctctaata ctcctctacg gcttcgacat 300  
 aaggcataga ggatgggcag ctcaaccaaga tgcctcctc gcctgatacg ataaccagat 360  
 gcccttcac tacgaatntc aacttttggt ggagtg 396

<210> 21837  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21837

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 ccataaggca taaacctagt aaaactaccc atcatatctc ccaaaccatcc aatacccacg 120  
 aaattatgtg agaaagaagt ctacccaaac ctggaatttg aagtcccaca acgtagatat 180  
 gcgcttcccg actccgaaaa tggcttcctt tcacgatttg gagcagaaat ggtgtgcaaa 240

ggttggagct ttgatggagc ttcaatggtg aggaaaaaga agagaatagc aacgtgaggg 300  
agagaggggag aaaagcttct gaacttttgg gctgagttag gagagagaaa cat 353

<210> 21838  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 21838

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acaaaaagcc caagataatg atttcaagat tgagtcaaca agttcaagat caagattaat 120  
ttcaagtttc atgagaagaa atcaagaaga ttcaagaatc aagagaagtt gatttcaaga 180  
ttcaagagaa gatgaattca agattcaaga gaagaaatca agaagacttc acaagggaag 240  
tattgaaaag atttttcaaa aaacaaacat agcacaattt tgtttttcag aagagttttt 300  
ctcaaaattt tccaagttac cagagttttt tttactctct ggtaatcgat taccaattac 360  
ttgtaatcga taccagtggc aaagtttaat ttcaaagctt ctaactg 407

<210> 21839  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 21839

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agagtgttac ctggagatat gtcgcagggg tcaggagacc ttggggacgt caggtggggg 180  
gctattgccc aaaaccaagc ttgaccaatc ccgacccaac ccgggcatag tcggtcagt 240  
agaacctgtg atgtacctaa gcaggcgagc tcttggcagt caacagataa aaggaaaaca 300  
agaccacaaa gcaaggaggc ttgtggtggc tggccagctg tgaattttgt gtaatatgtg 360  
gattgtggcc tctggtaatc 380

<210> 21840  
<211> 407  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 21840

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ctaanaggcc attgaggaaa gcattattca catccaactg aaataactct caattattag 120  
taagggaag agtaatgata agcctaatag tgatagggtt aacaacaaga gaaaacgtct 180  
catgaaagtc aaaaccatgg acttggtgaa agcctttggc cactaatcga gttttgtact 240  
tggtgatgga ccatttcgca ttttctttta ttcgaaaaac ccatttacac cctactgcct 300  
ttctattgga gggcaaggga actaaatccc aggtgtgatt cttagtaag gcagcatatt 360  
caagtntcat agcagaaaag caatttgaat cagtgaagc ctggttag 407

<210> 21841  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 21841

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aagtactttc gacacTact gtacgttgat ttCaccaatg ctgttatggg aatgttgca 120  
caatccttta aaaccttatt gataattct gagagggttg ttgtcatgtg gTcatatcga 180  
cgtccttctc tatcgtaagc catcgtccat ttttctttg agatgcgatc aatccatgtt 240  
gctatggctg gactcagttc acgaaatTTt tctaaatTTt gatcaaaaat gtgcttgcaa 300  
ggagtgtagg ctgcataaaa ttagttatga ataacaattt taagtataaa tgaaagtaaa 360  
ataaatgtga ccatcaaata tgacatctta 390

<210> 21842  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21842

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aaggttatTTt cttttaagtt tgactgcttt caagtcacat tggTctatac caaacaatta 120  
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[illegible]

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<223>      unsure at all n locations
<400>      21843
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<210>	21844
<211>	396
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      21844
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9156

<210> 21845  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21845

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 aaataagaac aataattatt tactattaaa tcatatttga atgtttgaga ttgaaagata 180  
 aatgcacaat acctttttta gtagtcatgt gactactaac taactttttaa tcttgatattg 240  
 atcgaaattt ataatgctca cattcttaaa atgagattgt tctagttata tatatccctc 300  
 ggattgggat gggaaggagt aaaagcattt ttcaccacaa tcaaagtctt taacagggat 360  
 aacctgtctt tttttttata tcaattaat 389

<210> 21846  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21846

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 caaaaatata tatactaaaa gaaatcatca ttgaaaagaa aaatccaaaa taataacttg 180  
 ctaatattaa tttatttaag tccttcccct tccttttttg tcatcatcat taactctagt 240  
 tcatcaagaa taaattaaca attttaagaa ttttattctc atcaagtgat ccaaattcat 300  
 ctectacaat gtcctacatt ttagtttcct ctgtaggta ttgtaggaaa tttcttgaaa 360  
 ggagacgaag attgttataa acaaatacta gatcctttgt ccaatgaggt gt 412

<210> 21847  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 21847

tgaagaggat gctttaatgg aggaaaagaa agagagattg gggcagtatg aaattgaagg 60  
aataaaagag ggagagaagt tgaactttga agtgtgtctc ataagacttt cattcatcaa 120  
agttaaaca attgttacac atgcttctat ttatagacta ggtagcttcc tcgagaagct 180  
ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttcctgggga agctagagct 240  
tagctataca caccctcta ataactaagc tcacctcctt gagaagtttc cttgagaaga 300  
ttcctaaaga agttagagct tagctacaca cacctctcta atagctaagc tcacctcctt 360  
gagatgagaa gctagagctt agctacaccc cctataatag ctaagctcac cccatgccaan 420  
aatacatg 428

<210> 21848

<211> 406

<212> DNA

<213> Glycine max

<400> 21848

agcttgcctt ttagagatcc aagaaggata aagcagctga aggaaccagt tccgctcctg 60  
aatatgacag ccatcgtttt aggagtgtg agcaccagca gcgcttcgag gccattaagg 120  
gatggtcatt tctccgggag cgacgcgtcc agatcagggg cgacgagtat accgacttcc 180  
aggaggagat agttcgccgg cggtgggcat cgctgggttac ccccatggcc aagttcgacc 240  
cagacatagt ccttgagttt tatgccaatg cttggcctac agtggagggt gtatgagata 300  
tgcgatcctg ggtgaggggg ttagtggatc ccattcgatg cggatgctct cagccagttc 360  
ttgggatatc ctttagtgct ggaggagggc caggagtga agtatg 406

<210> 21849

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21849

tcattgacgat gaatcaagta tgattcaagt agttttcatg atgacattat gccaaaaga 60  
atgatgtcaa tattgagtca acaagttcaa gaaatcaaga agattcaaga ttcaagagaa 120  
gttgatttca agattcaaga ttcaagagaa gttgatttca agattcaaga aaagacatca 180

agaagaatca agattcaaga gaagatgaat tcacaaggga agtattgaaa aggatttttc 240  
 aaaaacaaaa catagcatag ttttgtttta caaaaagagt tttcttaaata ttttctaagt 300  
 taccagagta tttactctct cgtaatcgat taccagtttc ctgtaatcga ttactagtga 360  
 taaaatntga tttcaaaaag ctttaactga atttgcaaca ttccaaatga ttnttaaagt 420  
 gtgtaatcga 430

<210> 21850  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21850

agcttgtgat aaattacaaa caccatatat actagattcg tttattctct tttccaccat 60  
 tgtaaatgct agagtatact attgacctct atacattaat agttgcgcat ggccaaaaac 120  
 caagaaccta cagtaaataag ttgctagcaa gctgtttggc attcattgtt ttggatgttg 180  
 tttttgtata ggctgtcttt gattctttat tcttattaat tgctactccc actttgctgg 240  
 aaatacatgc gcgttaatgg ttcaatgaac caacgtgtga ttaatcaata ttgagtggcc 300  
 ttaccttttt ttttcttgaa ttactcattt tacctaacgc ttggacggtt ttatttggac 360  
 aaacattntc aataacttta tcgaatgttg atcaaaattc ccatac 406

<210> 21851  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21851

gtgagcatga actactacca atatatagta tgttgtttac acaaatgagc acatcttana 60  
 agcatactcc gcacaatggg ggcctcttgg gaatgaagtg gcaattcctc cttctgatga 120  
 tgcattggaca cttatccctg acccaactac aattcgtgcy aaaggctcggc caaaatcaac 180  
 aaggataagg aatgagatgg attggctcaa accatctaac caccgacaaa aatgtagtag 240  
 atgcggagca gaagggcaca ataggcgcca atgtccaatg caatctgacc gtgggagtaa 300  
 ttcatttaat tgatttatgt atgttagatg agtgacttgt attggttgag gttctattca 360

atgtatttac tntgtggtgt tcaatgaaat cg

392

<210> 21852  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21852

agcttgagtt catgattcan aagaaaacac ctcgtaataa agccaattta gttcgacaat 60  
tggtgaagtt ggagtataag gatggtcata gtatgattga gcacttgaat aattttaag 120  
ggctcgtaaa tcaattaacc aaaattgaga tgaagattga tgatgagttg caagcccttc 180  
tactccttag ttccttgctg gaaagttggg acacactcgt ggttacactt agtaactcag 240  
ctccagaagg aaagctcacc atggatacag tcagtgcag ccctctcggg gaagaagcaa 300  
gaagaatgga acgaggtgag tctatccatc ccgaggctaa tgttattgag aatcgngta 360  
ggaatgagac tcgtggatgt aataagagcc gagatctgag ttttcccaac act 413

<210> 21853  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21853

acgtgcattt gtgtgcaata cacaatttct tgtacactac aacaaaatgg tgtatcagaa 60  
atgcgtaata gaactttaat ggatatgggtt agaagtatgt taatcaatta gactttaccc 120  
gtatctttgt ggatgtatgc cttgaaaact gtcattgtatt tggtgaacag gggttcctagt 180  
aaggcagttc caaagacacc ttttgaacta tggacaaata ggatacctag tataaggcac 240  
ctgcatgttt aggggttgcca gacagaaata aggatttata atccgcaaga aagaaaattg 300  
gatgcaagaa caatcagtga atatttcatt gggttatccag aanagtcaaa ggggtatatg 360  
ttntattgtc ctaatcatag tatgagaaat gtcgaaactg aatgcaggt tcat 414

<210> 21854  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21854

agctttcatc aagtggtaat cagagcacia gagcttcaag taggtgctcc ttaaactcc 60  
attaattttt tgctttacct tctattccat tgttgtttct tcattttttc tccatgtatc 120  
tcctcacatg tcttgtgata aatgttttta atatgattct ttagagtttc caccaattaa 180  
acttgctata gaagctagat ttgattttct atggttcaaa tttcttggtc ttgttcttga 240  
accatgaatt gtgttgagtt taggttcctt tgagttntgt cttgttattt ttttgtggat 300  
gaaacctata ccataaaatt cttacaaaaa tattaaagta gaagaaaacc tcaaaaatct 360  
agagtgaatt gttcacctat tgtagttntg tcatagaagt catgtctagt tatg 414

<210> 21855  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21855

cgctcaaaaa ctgctgggta taattatctc catgtgtaat caattacaca ttataaattt 60  
tgaattcaaa tttctagtaa ctgttataaa cattttcagc tactggtaat cgattaccag 120  
aaagtaaadc tcaattttta atgatttaga tagaattttt tggccaaacc ttttgttttt 180  
tcaatttgga aacttcttcc taagattcta gagatcaact taatcatata tcttgatttt 240  
cttggattct tggattcttc tcttanactt agaagcactt gatcctttgg catcatcaaa 300  
acatcaaaac atcttgcttc tacataggat tcatttgact taatccatca actgaataaa 360  
tccttcaact atntctcatc cttggaaaat tctt 394

<210> 21856  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21856

tagcttttag caaaggaaga agaagaaaga taagtagcan aggtttcaag atttctcana 60  
agttgttcaa gaaattctaa aaaattgttc taaaaagtta taaaatgca agtcaaggtc 120

ttgcttttat agactcttca tgtctgggtca agaaaaccat tggaagagtt ataaccttga 180  
 gaaaaacctg aaaaccattg gaagagttac atctcttgac tttttattca aaacttgtca 240  
 ctggtaattg attacaaaa ccatataatc gattacacaa aacattttat gaaaggatgt 300  
 gactcttcac aattgatttt gaatttcaac gttcagatac actggtaatc gattaccaat 360  
 atattataat cgattacacc atttanaaat caattggaac gttgc 405

<210> 21857  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21857

tcttatccaa ggctcatctt ggtgggtgtg ctcttcttcc catggcttat tccttaatgg 60  
 atggcgcctt ctctcacctc ttttctttt ctcccgctgc atctccatgg tggaaaatca 120  
 ccattaaagg accccattga agctcaaaga tccagcctcc atagaagccc ccacaagcaa 180  
 gtttccatca atatggataa catatagata tgacaataat cactgaaata aacttcatga 240  
 aacaggacct caacatcggg caacatgtcg agcacaatgt tgatgaaact taagtcactt 300  
 gagcatttca gaaccaactg aattttatac tttgggttga ccttgattnt aaaggcaagc 360  
 acattaccca ggaacttatc 380

<210> 21858  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21858

agctatgtgg atttgggtctt cgccggcaaa aggatcgaag cgggtctgaa aataggcaaa 60  
 tttgatcatc ctactttgat gagtgagaaa gctggggcaa atgaagagga tgagaatgag 120  
 ggagaaaccc ttgatatgac tgccattcct acacggtcaa atttcccatc agcccaacaa 180  
 tgtcattact cagccaataa cagtctctca cccaatcatc cacaaaggcc atccctaaat 240  
 caaccacaaa gtctgtctac cgcacttcca atgatgagca ccacctttag cacaaaccaa 300  
 aacaccaacc aaaaaggaat tntgcagcaa aaagcctgta ggattcaccc caaattccgg 360



tatcatatgc taaacttgct cccatatcta ctcaataatt caatggt

407

<210> 21859  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 21859

tgaactaaaa tcggaagag tgtgacctta aactgtgtgt gaacgactag ctgtgagtga 60  
taatctttgc atgaatcttt gaattttaga atgaaatgta taaatgagga cataatgaag 120  
gccatgattg tacatacaca agctcccttt ttgagctgaa tgatattgtc aaaaaatttg 180  
aacctgaac ttaaataatt atctcctgat accttggtta gattttagaa gagcatatgg 240  
ttcaaggcaa atttactcta aatttggggg aggaaagtca attagaatga aaagaaaaag 300  
gttaagcatc agcacacaca acaataagt gtttgtaaaa aaaaaattg tgttggtaca 360  
ataaggtcaa aagcaacttg agaggaaaag atagtgagaa aactacttgt ataatac 417

<210> 21860  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 21860

tttgctatga gcaaattcaa acgacaataa ccttttactc ggatgtctga ttgagtcccg 60  
taatatatcg agacgctcga aattgaatgt tgaagctcag agcaaattca aacgacaata 120  
actatcttct cgtatgtttg attgagtccc gtaatatatc gagacgctgg aaattgaatg 180  
tttaagcttt gagcaaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 240  
agtaatatat cgagacgctc gaaattgaat gttgaaactc tgagccaatt caaacgacaa 300  
taacttttta ctcgatgtgc cgatttagtg acgtaataata tctgggtcgc tcgaaattga 360  
atgttgaacc tctgagccaa tccacacgac aataactttt tac 403

<210> 21861  
<211> 346  
<212> DNA  
<213> Glycine max

<400> 21861

ccgcttaaac attcaatttc gagcggttgcg ttatattacg gttctccaat cagacatccg 60  
 agtaaaaagt gattgtcgta tgaattggct tatagcttaa acattcaact ttgagcgtct 120  
 cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgccgt ttgaattggc 180  
 tcaaagggtc caaattcaat ttcgagcgtc tcgatatatt acgggactca atcagacatc 240  
 cgagtaaaaa agtattgtcg tttgaattgg ctcacagggt caacattcat atttgagcgc 300  
 ccccatatat tacggcactg aatcggacat ccgagtaaaa agttat 346

<210> 21862  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21862

tagctttact agctagatag atattngtca aattcctaata ggtcaaacat cattcttttag 60  
 cacgaatgca tattcaattc ttgtgttcgt gttcatatat atattacact ggcatacaat 120  
 gcatgtttat tttctttaag atgctgccat ctgtccaatt tgtttgctat atatgagatt 180  
 cattaatatgt ttgggtaagg caattatacc gttcccgca gtcataccat ttgtcattgg 240  
 tcatatgcat agattaattc ataaagtnt ttttagccaa atcattttat agtttgtggt 300  
 gcagattata taatgtctta gaaaaaaagt aaatatttta aaatatatat tagtttacta 360  
 aattaatatt atcctttaca tattttttta gactatcttt aattaatac 409

<210> 21863  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 21863

ttgggccatt aacaaaaaa atgtatgttt gaagtaatat ttgattgcct ttctaaacac 60  
 aatatgtttg aactttgaag tacacaaaag gatgtgaaag tgatgcaaac atatagcatt 120  
 gaagcatacc aagtaagtaa aaacgtactc caatatgacc agctccagaa gaaagaaata 180  
 gtcattataa cttgggttaga agacattgtc tgcattgtgc atagaaacac tgttattaat 240  
 gaaaccattg cacatatagt tcttcaatta accacaattc ttttcaactt ttaataatat 300  
 aaagttccaa aaaccttctt ttcaaaggaa aagggggggg gggggg 346

<210> 21864  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 21864

tatcttctaa acacagcaac acagaatcta ggtgtccaaa acccctcaat tcaatgggtt 60  
 ttctaggttt gaaaagtga atttagaatg aggtaaattt gaggcaaact ctcacctcac 120  
 accagtccat aacatccatt tagacttggt caaactggat ttacacctaa aatctcaccg 180  
 aatcaaaatt tgactcttca acacccaaat ttgccctagc aatggctctt tgttcacttt 240  
 ggtcatttgt ttttctctct agctcagcct aacctttctc acatgtccta agtgacattt 300  
 caagctagta ttaactcact ttaacctcca ttaccacag aattcagact tagcctccaa 360  
 ctctcaaagt ctactcttt ttccactcat aacatcacat tctgacttta taac 414

<210> 21865  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21865

gactcacgct ttgagggtgc gcagcccacc atcttttata ttggagtacc gataatgtgt 60  
 ttaccatcac gattatcgtc tccctttcca ttattggggg taccacctgn gccgccagat 120  
 cctccacct tttgggcatg tttttgaaag atccgtcccc ctttttgac atgttctgta 180  
 gttgcatcct attcagaacc atatcaaaat tgtactgata ctgctaaca aaggcaacca 240  
 ttangtcctt ccaagaatgg actcangaag gttccaagtt agtgtaccag gtaacagcta 300  
 cccagtaag actttcttgg aaggaatgta tcagcaattc ctcatctttt gcgtattccc 360  
 ccattctcta acaatacacc tttagatggg tcttgagaca agtagtcccc ttgtacttgt 420  
 c 421

<210> 21866  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 21866

tatgctatgc aagtcttgaa aacgaagtca ggaaactaag ggagcctctg gtaatcgatt 60  
accagcctgt gtaatcgatt acatagaggg atgggtcact ggtaatcgat taccaggtat 120  
gtgtaatcga ttacacagtg catttttcca tatttcatgt cctgaggctg tgtaattcaa 180  
gtttagcctc tggtaatcga ttaccaaggc tgtgtaatcg attaccagag atgaaaagcc 240  
ttaagatacc cctcttactt gcatgtaatg gttttagaaa gtattgtgtg cagcgcagtt 300  
agattcttgt gaaagagtct acccctctct cttctttctt gtagatcgtg atggcgg 357

<210> 21867

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21867

ctataaaact ccgctntaac ctcatcttct ctcacattct ntagatnngg gagccaatcc 60  
agtccttggtg ttcgaaactct cagccactta tgatagccgc cgatgatccc attactgctt 120  
cccctaagct ctctgtcctt tcttcatgcc gcatcccatg ccttgcgaaac tccttgaggt 180  
accctcgcgt tgtggacact gaaacctcgt gcgacgaaag gcgtgatgct ttcattctgat 240  
ggcactcctc tcatgggaca tccttctcat gaagataaaa tcctgattct tccttccttc 300  
tagcgaggga accatttaac agacg 325

<210> 21868

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21868

agctttgatg gttntgagaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60  
gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaaacaag gctcattttg 120  
cttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcaag 180  
atcaagcctt gcttcacaat gaaaggtttc aagtcattca aggcacatgt aatcgattac 240  
caatacatgt aatcgattac caatggtttg aaagtgtgta atcgattaca catcatatgt 300

aatcgattac cagagactct gaacgttgag aattcanatt ttaaatagaag ggtcacaact 360  
gttcaagcan aataattgtg taatcgatta cact 394

<210> 21869  
<211> 340  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21869

tctagtgact gtgaagcacg ttattctggt gttttccaga tcggttcctt cgccaagtat 60  
gtgtatatgt gtataactgt attatattcg ttgttctggt tgttggttgt attttgtttt 120  
gtgcagaaga aaaaagaaga agtagagatg agagtcgtca tcgcgaaaag ggcaggacgg 180  
acgaaatcag tgtcctatct ttgctttcct cttatctctg atgagaggta agtaaagagg 240  
ggcaactgtc ataccctaatt ttcgtccggg gattattact tgatgacatg caatctttgg 300  
ttagccgctt tgagatactt ggcgttcttn gttgcacaat 340

<210> 21870  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21870

agctttcatc actcattggt agttgaaaat gagtgaatct aagcttcatt tatcttgtca 60  
tccacttgta tagttatagg atgattatat taagcggaat atcatagtca agttaggagt 120  
tgagagaata taaatttgaa tattcagaat aaaagaaaat ataattgttg attccagaaa 180  
atgtgctgcc ccttttaagc tgtaaagcat gcacaatttt taggtgttgg agtgtcacac 240  
aaccactcc aacaatgaca ctcccttaaa aattcaatta aaaattatct tttactgtga 300  
tggatatact tatattaagt agacacgtaa gtgattggat attcaacgac ccctagctag 360  
tattataaaa aatcacatt tctagtatta tanaaaaatc acatttttaa a 411

<210> 21871  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 21871

tgaaggtaaa ctagatgcct tggttaacct ggtaacttat ctggccatga ataaaaata 60  
tgcacctgtc gccagactct gtggtttatg ctctctgcc gaccaccaca cggacctttg 120  
cccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgctg caaacatcta 180  
caacaaacat cctcaacctc aacagcaaaa tccgccacaa caaatagtt atgacctctc 240  
cagcaacagg tacaatcccg gatggaggaa tcatcccaac cttagatggg caaatccttc 300  
acaacagcag cagcaacaac aacaacctta ttttcaaat gttgctggcc caagcagacc 360  
atacattcca ccaccaatcc agcaacaaca acagcaacag cccagaaaac aacaaacagt 420  
tgaggcccc 429

<210> 21872

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21872

agcttctttg aganaacttc cttgagaagc tggaccttag ctacacacac ccctctcata 60  
actaagctca cctccttgag aagtttcctt aagaagattc ctaaagaagc tagagattag 120  
ctacacatac ctctctaata gctaagctca cctccttgag atgaaaagct agagcttagc 180  
tacacacctc ctataatagc taagctcacc cccatgacaa aaaaaacatg aaaatacaaa 240  
aaaaaagtcc ttactacaaa gactactcaa aatgccccga aatacaaggc taaaacccta 300  
tactactaga atggccaaaa tacaaggccc aaacgaagga naaacctatt ctaatatatta 360  
caaagataag cgggctcata cttagcccat gggctcaaaa tatacccta 409

<210> 21873

<211> 417

<212> DNA

<213> Glycine max

<400> 21873

tcatgatgaa tcaagattga ttcaaagagt tttgatgtat acaaagatga cgacaaaaag 60  
ctcaaaagtc aagaacactt aatgataaca aagatgatga tctcaagaat aaaagaatga 120  
gttcaagatt gaatcacata cacttcaagg atcaagagga aagttgaatt caagaatcaa 180

gtttcaagat tcaagttcca agaatcaaga tcaagattca agaatcaaga gaagactcaa 240  
tcaagataag tattaataaag tttttttaaa aattgagtag cacatgaatt ttttctcaaa 300  
acctttttacc aaagagtttt tactctctgg taatcgatta ccagattatt gtaatcgatt 360  
accagtagca aaatgggttt caaaaaaaaa aaaaaacttt caaactgaat ttataac 417

<210> 21874  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 21874

agcatacata tatatTTTTT gacaacatcc gtcatgcctg cattaaacat gattcttctt 60  
ttgttaggaat tggccaaaat ggtgatagtt caacaacttt tcctataata atcagcggtg 120  
gtgacaccag ctgagcagat gtaattttct cgtgaaggtc ctttagttca gcaaacacct 180  
gcatcatagc aaaataatca gctattggac ctagcatccg gaaaagttga attaagaacc 240  
agctatatat agattcacac acaattgtat ttatttatca gtttttaata tcaaccatgc 300  
agaagtacaa aataaaatgt ctcatattca caactacctc ctataacaaa acattattaa 360  
gatcactata ttctattagc ctcgacttta gtgtcaggta cactctcttc ac 412

<210> 21875  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 21875

gaatgaaagt caaagtcttt gaaagggacc caagtaaagt taagaagtat gaatggcaac 60  
aaacacatat acgtcatatt tgggtctaaa tttttcaaat ccttaaagaa aaattggcag 120  
ataacgtcgg ccatgggaac aacaactaca ttggctaagt tgatatgact aatatgaatg 180  
ggcaaaataa actgtttact tattgagtat accaacaaat tttgaaaaat tgacctacgc 240  
gcattttttg tattaagaa acgacatttt cttttatata aaattaacta gtatattttc 300  
atttttttct taccatttca ttatgaata 329

<210> 21876  
<211> 412

<212> DNA  
<213> Glycine max

<400> 21876

agcttgatta tggcgcttta atggaggaaa agaaagaggg agagaaagag agagggggga 60  
gcacaaaatt gaaggaaaaa aaggagagaga agtgaactt tgagttatgt ctacaagac 120  
tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 180  
tccttgagaa gctttcttga gaaaacttcc tagagaaact tctttgagaa aacttccttg 240  
aaaagctaga gcttagctac acacacccat ctaaaaacta agctcacctc cttgagaagc 300  
tagagcttag ctacacaccc ctataatagc taagcttacc cccatgacaa aatacatgaa 360  
aatacaaaaa aaaatcctgc tacaaagact actcaaatg ccctgaaata ca 412

<210> 21877  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21877

gcttgcagct tcaatggaga atgaagaaga agattatggc aacgttatgg agagagagag 60  
ctgtctgaaa ttttgtgggg ctgagtgaag agagagagag ttgttttttg gttttaaata 120  
aaagggtttt ctctttttta tgttatttta ttcaagctct gccacatgtc cctatttgag 180  
tggagcaaga agggccact ttctcttttt gactgtgacc catactcagc cacaaaagtg 240  
agaaaaatct gacctttgaa acgctaaaat cctgcctcgg ttgctgtgtc gtttctcttg 300  
tttcagang atggaatatt ttgtgttcgt cggtgccagt ttttgaaagt aaccaatata 360  
tatatcaaaa cgctcagaat aaaaccccga gcgt 394

<210> 21878  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 21878

agcttgctct atatttacat tgatgtttgt atttatggga ggaggttata tgccattttt 60  
gctttaagag taacgtccca ctggtaaaac taactttcca aatgtttgcc ttcgcaggaa 120



tggccccgag gaagcttgcc tcaaagaggt ccaggaagga caaggcggcc gaaggaacta 180  
 gttccgcccc ggagtagcac agtcaccgct ttaggagcgt tgtacaccag cagcgcttcg 240  
 aagccatcaa gggatggtcg tttctccggg agcgacgcgt ccagctcagg gacgacgagt 300  
 atactgattt ccaggaggaa atatggcgcc ggcggtgggc accattgggt actcccat 358

<210> 21879  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21879

cttgccaccc agctcaccca ggcgagcagg gttgcttctt ttataagctt cagccttctg 60  
 gaggaatctt ctggagggcc caagtgggccc tggttgctat ttgcaccccc atttttacta 120  
 aatacacccc ccttttctat ttttttgtaa ctatttttct gtaacgttac aaaactttac 180  
 gaacttcgta acgatactta ttttttcttc tgcaagggtta cgaaccctta cgacttatgt 240  
 atttactctt ttttagcttt caaagaagtt acagaaactt acggattgcg canaaacacc 300  
 tctttttgac ttccgccaca ttacggaagt tcacggatcg cacaagcctg cttccttttg 360  
 atttctgaga catctcgaaa cttcatthtat tgcattgtcat caagtaataa tccccg 416

<210> 21880  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21880

ttaactgcat cttaatttag aatcctctat aataaagtct attacatcaa tccttntcat 60  
 tttttggtgg caaggacgag ctttagccca tcaatccttt ttctatatct atcatattaa 120  
 tgatccggcc tcctttgata ttttaccaga aaaaatctta ttcacctggt attccaattc 180  
 ctaatcccgat gatgtgaccg ttttatttca tataaattaa atccttcttt tatatgggca 240  
 c 241

<210> 21881  
 <211> 339  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21881

cggaccttga aactagctga tttgtgccat agagccagat ttgatattgt tgggcnggaa 60  
gcagatatat gaagatctag gacttctcat atggctgcag aaagagaatt ttgagatatg 120  
tgaaagcaca cttganatgg cttcttattc tccaaagcaa atcataatca aggaataacg 180  
taattgggtt tctaattgcag actnagtggg atgtnaggac acaaagcccc taatatgttt 240  
caatactgga tcacaatctg cttgattcta aaacaagaaa tgtagatttc acttggagta 300  
aagacatggc tatgttcaca gctgcaatca cctgggtgga 339

<210> 21882

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21882

tctgcttctt catcgacatt ntttctctct cttcatcttt tctttacttc atcgacacat 60  
gatatgtctt ctaaagcgta ggaaggttcc aaatgcgttg tgggtgggcat tgtgttgtgc 120  
agtatatgat tgcagcgtct gccatccttt tccctggaca tgtaggcaga gttactccac 180  
agagtgtaac ttatagcttt gcaacccttt tgcttgacct cctcagtggc aatcatattc 240  
ctccaagcca tgtaagtttc tttacttaat aaaaagttaa gcaaacaaca cttattgtgt 300  
tgtgtcctat aatgttgtct atcttagtct aattgagttc ttccttttga tcaatttctt 360  
cttctgattg ttctacctan aatcaagtaa gaagtacctg tcaaaaaa 408

<210> 21883

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21883

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attgnntagga agacagagaa atgaaagagt gattaaggat gaaagggtga atttcactaa 120  
cttggataaa aggcaaatag tagagaggaa gacaaaaaat tcatatagga tccactttcc 180

tctctgttgt gtcgcaaaac agatgagact ttgcgcaaca ctattatttc tgtgtgaaac 240  
 cacaattagt tgttgcttac tatcttgcta agtatttttt taggcattta tcttcttctt 300  
 atttaatatg gtacagtaat agaaagttgc taaaataaat gaanatgcat ataaaataat 360  
 atgcatctct tacgnaatat atatatatat atatatatat atatatatat atata 415

<210> 21884  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21884

tctgctttaa cctcatcgtc cctcacagtc tttagatttg ggagccaatc caatccttgt 60  
 gttcggactc tcagccactt atgatagcca ccgatgatcc cattactgct tcccctaagc 120  
 tctctgtcct ttcttcacgc cgcateccat gccttgcaaa ctccctggag taccctcgca 180  
 ttgtgggtcac taaaaccccg tgcgatgaaa ggcgtgatgc tttcgtctaa tggcgctcct 240  
 ctcatggggg agccaagctg tcttatggcg agaacgggat tataattaat acaaccctt 300  
 gttcccatca agggaacatt tggacatcct tcgcatgaag atagaatctt gattcttctt 360  
 tccttctagc gagggaaacca attaacagac gccncccat gc 402

<210> 21885  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21885

tcttatccaa ggctcatctt ggtggtgaag ctcttcttc caagcttatt ccctagtgga 60  
 tggcgccctc tctctcctct tctcctttgt ctccgcttc atctccatgg tgaaaaatca 120  
 ccatcaaagg acctcattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180  
 ctccatcac aaattccgca ccagcatgat tggagtaccg accttaagtg ttaatttgtg 240  
 attaggtatc cctgatgttt tcaatgagtt tagaaattta ggtgtcagta atccgaaagt 300  
 aggattgagt agttcatctt atttatcaat gttatcagtg ctacaatact ccttttcgtc 360  
 attgggtatc aatgataaga cnaataatnn tatttgtcaa caata 405

<210> 21886  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21886

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 tggaggaatc ttctggaggg cccaagtggg cctggttgct atttgacccc ccatttttac 120  
 taaatacacc cccctgcttt ttttttgtga ttcttttttg gtaaagtatt ggaaacatac 180  
 gaattttgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggatcacata 240  
 atcatccctt ttttgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300  
 ccatttgatc tccggtgtgt cacggaacct tacgaattgt gcatcaatat tttcttngt 360  
 tttccggcac gttccggaat ttcacaaatt gcctaattgat gg 402

<210> 21887  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21887

ttgagccaaa atcttgactc accataaacc ttacccttgt aagcaaaaaa ggaaggaagg 60  
 aaaggaaatt cccaatcaaa gagaaagaaa aaaaggaagg aaaggaaatt cccaatcaaa 120  
 gagaaagcaa aaaaggaagg aaaggaaatt cccaatcaaa gagggggaga aagagaaaaa 180  
 aaagaaacga aaggaaattc ccaatcaaag aagtgggaga aagaaaaaag aaaagaaaga 240  
 aaattcccaa ccaaagaatg ggagaaagta aaaaagaagg aaaccatgac ctanaagtgg 300  
 tcttctccct ttgattacca accaaaatcc tgtgcgctag cgactttttc gccccgcgct 360  
 aaacaaaaac agaaaaggaa aaagccaacc aaaaatcaaa gccaaaacac aca 413

<210> 21888  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 21888

ttgcttgcaa gcttgagcta caattactct gatagagtag gtcttcttca tatcattaat 60  
 aatgccattc aaccatactt ttttagttgt caataacttg ccatcaactt ttttagtcaa 120  
 tcattttgaa tttgtagtct tgttattgaa gaccctccca cacgtgtgct tccgttcaaa 180  
 tgtcttcatt atgaatggtg tgttgttttc cacttggtt accaaaaactt taaatgaaca 240  
 accttttgac ttacacataa ctctaactct aattttgtca ttttttgga acctaacctc 300  
 cattctaata agaatcaaat actctctcat tgcctcctta tagtcaacta aagagttaaa 360  
 cttcatttcc aactgaaatt tgaagttctt tctaattc 398

<210> 21889  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21889

tccttcagtc tatctacaat gtttatgaag ccatcagagt caaaataaca aagatctccc 60  
 gtcttcagcc acccttctga atccaatggt tcagctgtcg ccttctcctc tcctacataa 120  
 cctgcacogg caccataatc accattcatg gaacatatta cataagcaag accataaaaa 180  
 attaagtata tttcgctagt gatatgaagt acgtttggta aaaaacacga atcatattca 240  
 tcttgatgg cttaacctga aattggatc atttattang aatcatgatg ataacagatc 300  
 ttagaatttt atgcactnnt ttaatcgatg gttggtttat aagcttttct tcactaccta 360  
 aatcctctc ttgtctcagt tataaggaaa aaaca 395

<210> 21890  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 21890

agcttataaa agtcttgta aaaagttggt tgattaacgt gtgctgttgt cttgaagatt 60  
 catgattgac tgcaaaccga ccgcgcatac acttatatga tatatcctct agcaagcaaa 120  
 aggcagtgc taaataatac tactatctat ggaacacaca atgctgactt tttacagtta 180  
 tacgagacta ctattatctg atatctgaaa ttacttttaa ccagctttct catttgattg 240

cgtcaccttg tgctcgggac ttggtcatct acacactcca tctcagaagg acaggacccc 300  
 atatagtatc agaactatta gacgaaaaca tgacagaatc ctctgcgtgc tatatccctc 360  
 attatagtac aagactgtga cgagtct 387

<210> 21891  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21891

tgttacaaac tacaanttnc tanttttnag cnttttttcc actgcttcaa ctogatctga 60  
 ggctgaaact atcatatata taaataacca attaactaat atctctccac aaagaaacat 120  
 tattcgacat ggggcactgc ttcagcaaac ccagcacaaa cgaaatacca ttcaactatg 180  
 attattcacc accccctcat cattatcagc cacgcccga ctcacactca gactcaagga 240  
 gaacacaaca acctcaactt caacctcaac ctgtgtaccc caatcgaact ccaaaatcag 300  
 acccatctcc atcatcatca tcatttggtg atcaaga 337

<210> 21892  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21892

agcttaagct ccttcaactg cacaagggtc ttaatatttg aagagtatcc ttgtggaacc 60  
 ttcaccogac gaagacactg aaaaaactt atcttttctt tcttggacaa agcatggcag 120  
 gctgggggca agtaaatctt ctcccatca gaccttggat gcaactgtga tcgtataccc 180  
 atatcaacta gatcttgacg ggtattcaag ccctcctcg tcttgccttg aatgttaagg 240  
 agtgtgcaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300  
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaat ggatctcttc tttcatatgc 360  
 cactctgact tttatcctt 379

<210> 21893  
 <211> 366  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21893

tggttcgagg ttcttaccg ttgtttatcg aagaacgttg aagaacgaat gaagaacgtc 60  
gaagaacggt tcaaaccttt gcgagattcc tcacggaaaa cgttacggaa acgtttcgga 120  
agcgcctcgg cttaaatttt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180  
agaagtgcct aacgggctgg accccttctt tcttcatttc ctcccctatn tatagcagaa 240  
taggggaagt ggttgctgcc cagctcgccc aggcgagctc aactcgccca ggcgagcagg 300  
gttgctttct ccagaagcac ccgccttctg aggaatcttc tggagggcca aatgggcctg 360  
gtgcta 366

<210> 21894

<211> 412

<212> DNA

<213> Glycine max

<400> 21894

agcttagccc acactactgg cttaggatgc aaaaagccca cggcgaagcc caaatgtgtg 60  
cttaacgggt tacgctaaga gcgaatttag tgtgaaaatt aagttacctg aaggctatat 120  
aaggaggaag aagtagaagg gaaagacaca cggagtctta gagctatcca aagcctcagt 180  
ctatccctta ggggaaacct ctctctgttt ttttatccat ttcccttttt cttgctatta 240  
gtcatccagc cttttctttc attagctccc gaagtgtaaa gcctctaata actatgagag 300  
gccaaacccc tttttgttgg gagccaggag gccgaactct tgtaatgtaa ttcttcccta 360  
ctatctattt aatgcaatta tgtttctatt attcttcttt gtgcttttat gt 412

<210> 21895

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21895

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ttgatcttga cttgatagaa cctcttttta agcaaaggca tctaacttga tcccatgttt 120

tactagagtg ggaaaaaaag tcttgtttga atcaatactt cgacatctac catgggtgaa 180  
atggatgaat gcatgaagaa atgcttatgt gatgcatgat acagacgcat tttacagaca 240  
tgagagcccg gaagattatc tcttcttaat tacaacattt ggcagcacag tgccccacgc 300  
atgtacttaa gaaggtgaca cgaaccttcc ggcttctcgt gataaatgaa cggaccanaa 360  
tacaatgcaa gtgcgatgac gtgacgcaga cgcgcgaaag cacaacaagg tgatgtacac 420  
agtat 425

<210> 21896  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21896

agcttggcct ttatataaat agtttacact tatagattca agtaaaacat ttttattcta 60  
ctcaataaag gcttcttttt actattttaa aagggtgaaat atattagttt tatgatttgg 120  
catcaaatat gttcgtgaca ttgtgaacca aaaactacat taaggaatga gcttagactt 180  
tgttgttgct tgtaatttat cttgacacag gtaaagttag aggaaaattg tgaagggggt 240  
tggatgagaa attttattcg aggggggaaa gttcaaaatt taaagagttt taaaaatttg 300  
gggaggggaat gaccctgag gcatccaaaa gagccacctt tttccccgag agaagctcga 360  
tttgtatatt tgtttggttt tccttanatt cttt 394

<210> 21897  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 21897

tactatattt aacagctagc agaccgcaga tcacctatgc agtaggtgtt tgtgcaagat 60  
atcaagccaa tccaagata agtcacttga atcaagtaaa gagaattctg aaatatgtaa 120  
atggcaccag tgactatggg attatgtact gtcattgttc aaattcaatg ctgggttggt 180  
cttgtgatgc tgattgggct ggaagtgcag atgacagaaa aagcatttct ggtggatgct 240  
tctatctggg caacaatctt atttcatggt tcagcaagaa gcagaactgt gtgtccctat 300  
ctactgcaga agccgagtat attgtagcag gaagcagctg ttcacaacta gtttggatga 360



agcagatgct caaggagtagc aatgtcgaac aagatgtcat gacattatac tgtgacaacc 420  
 tgagtgc 427

<210> 21898  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 21898

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 aaagctagct cgtatTTTTT atgttggagt gtcctcaatt aatagggtga gtttggatgt 120  
 tgctttagg ggcaacctca tgttaaaacc ccatgttggg gaaatcaaaa tcattgaaga 180  
 catgtgttct atgaaataac aacaatcaca ctagaagagg ggttgaatag tgtgtcaatc 240  
 aaagatcaaa tatatTTTTT gttcaactgt aatatcatag attcatatat atatatatac 300  
 atatatatac acacacacac tagaattgta aaaaaaaaaa acaagtttaa tagtccaata 360  
 aatatatgaa gtaagaagtt taaaagggtt ttcaaataga caccaaacac gctaaa 416

<210> 21899  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 21899

tatttcgagg atagtttatt atcatgcata gcttgcatta gttggctcat aacagaccaa 60  
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 tgagacccaa cgaagttgct ccgcctgagc ccacacctgt gcaggtttat ctaaagccaa 180  
 ctgaccata atctcaagtgt gtgaatccac cttcttctct tgagcttaaa ttagtgtccc 240  
 catctccacc tctgattgtc atcttcgacg catcatcaga tgaagcggct acccctcctg 300  
 attaaccagt tggagaaaca attgatcccc ttgcttcccc ggttggagga attgccgac 360  
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 tgacatt 427

<210> 21900  
 <211> 409

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21900  
  
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 ttctggagga cagaggacca gtggaggact tcaaccagtt ggtgggagtt ctgagccaat 120  
 taacagggtg tctcagtctg cgggtagagg tagtggtggt agtggtgctc ctgctattgc 180  
 tactacacca ctgaggtgtg ggaagtgtgg tcggcttggg catattgcac gtgagtgcac 240  
 agatagagag gtgacttggt ttaactgcc aatgaagggc cacctcagta ccagttgcac 300  
 atatacgagg agggagaata ggagtggag tctgaataat cagagtggac gaccaatgac 360  
 cacagggaga gtgtttctct tatgntgctg atgcccacag tctgatgaa 409

<210> 21901  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21901  
  
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 acctggagat atgtcgcang ggtcaagaga ccttggggac gtcaagtggg gtgctattgc 120  
 ccanaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180  
 tgatgtacct aagcaagcga gtcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
 agcatggagg cttgtggtgg ctggccagct gtgaatcttg tgtgatatgt ggattatggc 300  
 ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacaag 360  
 aggctaagat ggtctctggt aatggatta 389

<210> 21902  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21902  
  
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 tattaatagc tttcatctt tagagtgggc gccatctta cggcagtaca tcttgagatg 120

gtttttggga caagtcgtcc ctttatactt gtggaagtec ggtactttga acttcggggg 180  
aataacaaca tcgggtacta agcaaagatt cgctatgtct gcgaacggat aatccccaaa 240  
tccttcgacg gccctcagtc tttcctcaag gagatcgagc ttcctccttt cttcagttgc 300  
tggaggcggc ccttcctgtg acaaaaactat tgggtggtgct gcgatgttgg gttgaggcaa 360  
cgtgcctggg gccggccctt cgggatcggg gat 393

<210> 21903  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21903

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aaatttggtc cggccatact cttccttgcg agccctcttg gtctcttggt caagggtctt 180  
tgcagtaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240  
caacttgaac ttctccttg gcaagttttgc ctttcctaac tcgcttttga gagtttggac 300  
ttcttcgtcc tcttcgggtg cttcaaaaact ctcttcgctg acgactntta acttggcgag 360  
ccaatctaaa cctcgatat gaactntcat ccattcgtgg taccaca 408

<210> 21904  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 21904

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tcattctact gcctgcatgc aatgaatatt tctccctaac aagatcaatt ttcaaactgc 120  
aacggtgaaa atatgcagaa atgaatttcg aaccagggtg cccaatttca caatgatcca 180  
acggttaatg agtctgggat tatagtttta ctaggacagg ttttgggtct ctgcaagaaa 240  
agaaaaagt aagatgagaa gggaatttct ctcacctcca actctgattc gcaatttcca 300  
tcggtgagaa tacttgaata tgagctgcaa acttgggtgct caaatttcac aacaatccaa 360

cgattaacga gtccaagatc attgttttac tgagacagat ttg

403

<210> 21905  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 21905

ttagattagt gatcacatga aagagtgtat aatatagtat atgcattgag tttgaaatgc 60  
gatagatatc aaagtgtgaa tacatcctaa aatacatata atggaaattg atgattgaat 120  
gttcaagcaa aatgtctaaa aactaagcct acccatacat atacgaaaga gagagaacac 180  
actagtctca aagcagtcac cactaaaccc aaacccatgg caaggaacta cacaaacgtg 240  
ttgagataag agtcaacaa ttagaagagc ccccataatg ggactcctgc gaggaacat 300  
cacacatgac ctcatcaaga tcctctacag gaccctcatc attgctctcc ttaatg 356

<210> 21906  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21906

tttcttccat atgataagag cttatcaa at aagcatgatt tagctgttta cacaaacaca 60  
ccatttatgt attaaatcta acttgatagc ttaagattaa aaaaaggaaa aaaaggtttg 120  
tcatgcctca aataaaaactg gctttttctt ttacactggc atcgtgggtg ggtacacatt 180  
ctggtaacaa ataattacaa ttattcctac aaaataatcc agaccacccc atttgtgtgc 240  
agcactagcg ctactagatg gatgataaaa tgggaggcct taatagatgt atgtttcttg 300  
tggattgtta taagaaccaa ctntgttcac ccaaaggtta actagttcat cacgttgata 360  
ctacaacaaa atagaataca tcctttttaa aacaaaagtt gttcaccac 409

<210> 21907  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21907

tgcaccaact tctcattnta tgcataatat acaagtttat attttaattt aatgtttagt 60  
 aacacgacta aaatccgtag taagatgaaa aataaatttt caatttaata cttatttagcg 120  
 tatattttaa agaaagctgt tagaaattag taattattga ttatttttgg gacatgtaag 180  
 aaagacatta tgtgtgcttt ttttagcgag acaatgttat ttggtttaat agactaataa 240  
 tgtaatttaa catattgaaa catcaaatta taaatattct gtacaaaatt aatggatatat 300  
 agatgctgga tgtatttatt cagcataaaa aggttcctgg atgtatttta ttttttgaga 360  
 ctggccgtct ctatcttc 378

<210> 21908  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 21908  
 tagcttcttt tggaccttga acaagcaact aactcctctt tcagaaccat gctatgtgct 60  
 cgtgactggg ccctctcttc ccttcgcagc ttgagttcac tattgctacc ccatagagct 120  
 ccgcgaaatt tattccggcc atactcttcc ttgcgagccc tcttggtctc ttgttcaagg 180  
 gctcttgagg taattgcatt ctcttcccgt aaccggcac actccttcg aatgtgtgtt 240  
 gcggccaact tgaacttctc cttggcaagt ttgccttttc ctaactcgt tttgagagct 300  
 tggacttctt cgtcctcttc cgggtgcttca aaactctctt cgctgacgac ttttaacttg 360  
 gcgagccaat ctaaacccttg tatatgaact ttcagccatt catggtagc 409

<210> 21909  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21909

tgcattngga attgcgaaag cccactcta tcattattat tagtacctga catctcaaac 60  
 aaacaaatca aacgtaacaa gacaattata gttgctgttt gaatacctca cccactcaag 120  
 tgtatcacac aattatggct tttctctaata gaaacactct tgccttttac cactctaatt 180  
 ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaagaaca attcaccaat 240  
 atgtgtaagg taaggctaga gagacaagga aaaggtaaac caagaaaaag gctaacaatg 300

tttttaggca caaatgaagg aaataaaatt cagaatttat gaattcaagt aacaatcctt 360  
catgcaacca atatatt 377

<210> 21910  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21910

agcttgcata catggctaac caattgtcat tgtgttacct tggtaggaag tgtttggtt 60  
cgtaagcatt gttggattag gagaaccttt gtctaaggcc tatagacttg tgagtgcctt 120  
tttccttatc cacttgattt ctggattaaa ctttcatgtt ttttttttgc acagcaaaaa 180  
tcagataata ttataaatga ttcagtacta agtgtactga agataagctg aaatagatac 240  
caaggcagag aactgccgaa cccaactaca taggataaaa gcacagtagt tggagggtta 300  
agtcgataga ataattctgc tgagtactca cttgggtntt ntttttgctc atcaaanata 360  
gataatatat attgatagag taccagtggg acgaanatac aaggtact 408

<210> 21911  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 21911

tgaagggtgtg tagtccacca tcttttatat tagaatattg gtaatgtgtc tactattatt 60  
gtcatcattt tttttccgtc attgagggtgc cacttgagct gccagggttct ccacctttgg 120  
gcgtattctt tgaaagatcc gtgccccctt tttgcacatg ttctgtagtt acatcctatc 180  
cgaagccatt atactgacac agcctaacga aggcaaccat tatgtccttc caagaatgga 240  
ctcgggaagg ttccaagtta gtgtaccagg taacagctac ccagtaaga ctttcttgga 300  
aggaatgtat cagcaattcc tcatcttttc cgtatgcccc catcctccga caatacatct 360  
ttagatgggtt cttgggggcaa gtagtcccct tgtactcgta aaa 403

<210> 21912  
<211> 412  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21912

ttgcttgcaa gcttgaggat gttggattgc actaactcac gaatgaagtg ataatacaata 60  
tcaatgtatt ttggtcgttc atgggtgagct ggattggatg ctagatctat gacagatttg 120  
ctatcacaga aaaacatgat agaaggaata gtaatctcaa agtgcagtaa aagtcttctt 180  
agccaaatca cttcactaga tattgaggag agtgcccgat attctgcctc aacagaagac 240  
ttagacagaa tgggttggtt tttttatttc catgatatta aggtatctcc taaaacacac 300  
aagaaccaga tgttgatctg cgtgtgtcca agcactttcc caatcagcat ctgcttatgc 360  
agacaaattg catgaattgt ttgatgaata tgacaccctg acctgcagac cn 412

<210> 21913

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21913

tcctactctt agtttgcttt actctttggn tctttgtgcc ttttggtgct gtttaactcgg 60  
tatagttatg ccttagatta acagtggta tgccgttaag ctatgacttc agtgttattg 120  
ataaaaactga gtttaagtttt gagtactttt tcactattag tagaagtacg caaaaaaaaa 180  
aaaaaactttt attttttgtg ctatgtccaa ggtaattac agtcgtgggt gtgggtttgtt 240  
gcgatccttg acattgccgg aaattgtggg caaatgcaat tgcaattgtg gtcgcgatgt 300  
ggttgtggca agcctcaaaa ccttgatatt gcagctgaag ctgtgtactc ttatatagtg 360  
cacttagctt tataatt 377

<210> 21914

<211> 372

<212> DNA

<213> Glycine max

<400> 21914

agcttggttac agaacttagg aaaaatcaag aacaagcttg ttcgcacatc gttcgcgtgt 60  
atgatatcca ctcgacaagg tttgaagtag aggagacctt caatcctata atgcaacgtg 120

gcggacaaaa gtgggcagtt aacttgaatg gccattattg tcaatgcgga aggtattctg 180  
cgcttcacta tccatgttca cacattattg cagcttgtga ttacgtgagc atgaactact 240  
atcaatatat agatgttggt tacaccaatg agcacatctt aaaagcatac tccgcacagt 300  
ggtggcctct tgggaatgaa ggggcaattc ctccttctga tgaggcatgg gcactaatcc 360  
ctgacccaac ta 372

<210> 21915  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 21915

tgtaggatta tgggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60  
aacaagtttt tccacatcca caatgcgcgc ataaaccac catcccctgt agcccacctc 120  
caactgagct cacgtactcc catgtagccc atatcctcgt ttctctcaac accgggtccc 180  
catcaatcct cccaagcttc cccaacatca aagtaataca acattcaaac agcacaaaact 240  
atcacagcca agaaaacaga gcagaggcag aaaactctgc caaaacacca accaaaatca 300  
cagcttttct cacttaaaga cccagtaac aattccttcg ttccaattcg ttaaccgttg 360  
gatcgactcc aaatttttac t 381

<210> 21916  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21916

agctttttaga anaagaaatc aattgaaaat gatgagcaat ttatgaaaag tgacatttat 60  
ttttttgcaa gcttaattaa taatgaaagg aatggagaga aaaaatggaa aaggttaaat 120  
ccgtgcacaa attataatcg tcgttaaaaa tttaatataa ctgtcgtaa aaaagtattt 180  
tctagtagtg gtaaagttca ctttattgat tgagtcataa cttataaatt caatcttatg 240  
cagtcacaaa gaaagttgaa atttgaacac aaaaanagaaa taaagatgaa gatttactag 300  
attgtcatat ttttttttaa anaaaaacat tattatacat gtatatatta ttataatcat 360  
gttaatggta catatatcat catatttaa 389



<210> 21917  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21917

tgcatgtaag atactgcaac ttcttgctga tcacgaatat cttgcagtat ttcccttggt 60  
 ttgtattgtg gattatctcg aatgcgtgct tcaacagatc ttgcaacca acctactgat 120  
 gcctgctgat gatgaagggt ctgaactccc tcgcaagtat gctctccgtg tagagttctt 180  
 acagtaaaag ttggaacacc gggacacttt gctacatgga cccgccatgg gcacccttct 240  
 ttggagcatt ntgctataaa acgactgcga tctgacttaa ctatcctaag atcaaaatgc 300  
 atagcaatgg caatatcttt cagtgttctt cggcagggtt tcacatctgc aaactcttgc 360  
 ccaatgacta acggctgctc tgctacagta acagtactaa cagatgtgt 409

<210> 21918  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 21918

gttctgtgcc atcattggac cactttgtac acgactttct atcgggtcca ctttctatgt 60  
 cctgatccct ctgctcttat aatcaaccct ctaagatata gccaatgtaa gaatctaaat 120  
 ggaaaaatgt ctaagaagtt atgggaatac acatatatac aatatgtaaa gcatagtaca 180  
 cttaattaaa atataaaaac ataaatttac atgtgtatcg cagagatatg attgctatga 240  
 ctttatctgt gatcatatcc cagtttagac acgtagcgta cgtggtacaa aaatttgcaa 300  
 gtgtatatgc acagcagtgc ttgatgacaa ttaacaaaag gttaattgac atgataaaaa 360  
 gggtatcaaa aaatataaa 379

<210> 21919  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 21919

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 gtgggcctca aaagaattat tgatggcatt gaggaatgac tctatttcct catgaagctc 120  
 atcaactact atatcattga atctaaaagc ctcaatgatt tcttgctgaa gctttccttt 180  
 gtagtatgga ttcgaaagag tgtcttcaag gttctgatca aaaacaagtt tttcgaaagg 240  
 agccacaacc tcattgaaat gggtaaaagg catgttggtta ctcgatgtgg aggcttttga 300  
 aggcatagaa tctgaagacc aagcatcaat gaaagtgaaa gggtagcat ccattggatt 360  
 cacatctacc tgaggag 377

<210> 21920  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21920

agaatgttta gtgagtcttg actgaancct tgaanacagt gaagtcttat aanaccatt 60  
 tgaccagata gatcatgttg tctaccacta aatttctcta tttgtagcga catagatcgc 120  
 gaacctactg gacatcttct ggctcaccct tcatgattaa ttggaaactc gtcaaggagt 180  
 tatattactg tgtggcttga aaagtcttat tggaaaatct gatatccctc ctaataggcc 240  
 acacatgaat cttactgtta atatttaa ataatat gagcaggggt gctcctatac 300  
 cttgacgact caaaacgggc agcgcggtta tgggtctttt gaaagttacg aaggcttgca 360  
 cataagtctt gttccatgag aatggctgac ccttttgtag cactctgtta atgcttcac 420  
 tttctcgcga tctatggcac gtacctggac aacgatgcta tctacc 467

<210> 21921  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 21921

agcttgtaat aatcttatat agaagtatga gattaagttc ctgagtggaa ttttgatgca 60  
 atcctcccat ggagggggcc catcaccaga gtcatggtta agagactcca ggaagattgg 120  
 gccagggatg caagagaatg ccttaggggt ctcatgagcc ttagggtagc ttttgggcc 180  
 atgggttaag tatgtgccca cttatctttg ttcattatag attatgggtt cattattttt 240

ttgggccttg atttagggca ccacagtgtg gggaggggtac cccataagtt tagggtagcc 300  
tagtaatgta ggatttttca gcccttgat tttagggctc acagactagt ttttgatca 360  
gggatagttt tgtaatttca cat 383

<210> 21922  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21922

acatttgcta ctggaatcga tacaataatc tggtaatcta ttaccttaga gtaaaatctc 60  
ttttgtaaaa ggttttgaga aaaattcatg tgctactcag tttttgaaaa aactttttta 120  
tacttatctt gattgagtct tctcttgatt cttgaatctt gatcttgatt cttggaactt 180  
gaatcttgaa acttgattct tgattcttga aatcatcatc tttgttaaca tgaagtgttc 240  
ttgagttttg agctttttgt catcatcctt gttatcataa aaaatccttg aatcaatctt 300  
gattcatcat gaagcttgct tctacatgaa agcatttgaa aataaagcaa caattaggca 360  
atatatgtat atacatcaag catggccaan atacatcatc aagcatg 407

<210> 21923  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 21923

agcttcaaga gatcatcctc tctacaacat tattggtgat atctcaaaag gggtaacaac 60  
tagacattct cttaaagatt tatgcaataa tatggctttt gtatctatga ttgaacctaa 120  
aaatataaaa gaagtcatat tagatgataa ctggatcatt gccatgcaat aagaactgaa 180  
ccaatttgaa agaaacaatg cgtggaaatt agtagaaaaa cctgaaaatt atcctgtcat 240  
aggaacaaaa tgggccttta gaaataaatt atatgaacat ggtataatta ttagaaataa 300  
agccaggtta gtagcaatag ggtataatca agaagaagga ctagactatg aagaacata 360  
tgctcctgtt gcaagat 377

<210> 21924

<211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 21924

agagagtgga natttgatac gtagcattgg acgcactcga tataactact aagcttatca 60  
 attggattac gcttatatat atatatatat atatatatat atatatatat atatatatat 120  
 atatatatat atatatatat atatatatat atagggtggaa gcccacgctc gacattccaa 180  
 tttttattcc cattacatta tattggaaaa ttctgtaata tctgaatccg gtacgatttt 240  
 caaccaacaa ttaaaaagga gtcaaagtgt ttcttctgta taaagaaagg acacatatag 300  
 aaggactgcc ccatatttaa aagttggtgt gtgaagatag gtacaccata tactatcggt 360  
 tgttatgaat ctaatatgat taatgtacat cataatacat ggtggataga ctctggctct 420  
 acaatccatg tggctaataa ctgcgagggt atggaaagtc tatagaagcc agctggttgt 480  
 g 481

<210> 21925  
 <211> 297  
 <212> DNA  
 <213> Glycine max  
 <400> 21925

ccaaactgaa atgagatgcc atgatgccat atacccccta aggattttta tttaaaaagg 60  
 gatcgaagca ataatacagta tgctgctgaa gaatgcaaac accaaataag gggaagattt 120  
 gttgaaatga gagacgtgta acatccaaag tgtgggctac gttaacatgc cgtttggttg 180  
 agttaaacac aatgggttgag gatgaaacct ttgacataaa tctgttagaa ataccccata 240  
 tctctgtag accacttttc ataaattcgt ctatactgta caagtcaata tgatctt 297

<210> 21926  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <400> 21926

agtttttaca cttagggact aatgtgaatg aaagaagggg ttggatgact agaagaaaga 60  
 aataggggaa tgactaaaaa ggaagggttc ccctaaggga tagactcagg ctttagattt 120

cttcactaga gagctttgag actcgggtgtg ttttttcctt caacttecta ttccttttat 180  
aagcctaagg tagcttactt ttcacgctga caacatgcac ttctagtagc aagaatggcg 240  
gtttaatcac gcgcttagcg cagtgttcgc actaagcgcg accctatgcc ttctttgcac 300  
taagcgcgag ctggccgctg agcgagcatg catgctgggc tcgtctcgtg tgctaagcaa 360  
gctgtccact tctt 374

<210> 21927  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 21927

ctccgcttga ccttcttagt tgttctttgc taaaattttc ttattgtttg caaataaatt 60  
gtcaaaatac tgaacatctt taggggtgagt atcacatgta aaattaaaaa tatgttaaag 120  
atTTTTatta ttgttttttag tgataaatct tattttaaaa tcttagatca ttcttaatag 180  
gtctcacatg aatcttatct tttaatattt aaatattttt ttctttttat tttctttctt 240  
ttactttctca tttctcagcc gtcatgctct ctcaatcctt cttttttttt tcccaatggt 300  
cacactttct tatttttctt ttccttcctt gccactcccg tccccctcca cttcatgctg 360  
actcaccctt accctcccc tcccctctgt aacttctc 399

<210> 21928  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 21928

aatcttattg caaccacgag attcagctcc tgagaggaat gtacgtgcta taactaccat 60  
ggatggggcg ccatacacia agtcatgggt gacagactcc aggaagatcg agccaaggat 120  
gcaagagaat gccataaggc cctcatgagc catatgggtat cgtatagtgc ccatgggtta 180  
aacatgcgcc cactgatcat tgtgcatatt atatcatggt aacactattt ggtggagcct 240  
cgactcatgg cagcagattg tatgcaggga tccacataat gtt 283

<210> 21929  
<211> 408

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 21929  
  
 aactaagcgt taagaattag aattatgatt tttgaggcat gttttataaa tgttgattct 60  
 gatagcgcgt atttgaaatt tcattgattt gtttgcacat cctatgtata aactataaa 120  
 atgggataaa tacattggtc tttagatttc accttaataa acaaagctga tgcttcacat 180  
 ggatattgat atttgaacca tctctgcagc tacttcttac aacaaacaac acaaattaat 240  
 aaacattaca aaaaacaatt gtatggctta tgtaaataaa tgtatcaaaa tcaaataat 300  
 aaatacaaaa ttacatctga caatgttaat taattctctt tcatcatgat cattacgatt 360  
 agcatgaacg tcgaaggctt ttttttcttc gacaacatta tgagtgat 408

<210> 21930  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21930  
  
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 gaaaatgtac tgcattcatta gaactggata ggacaaggct cggttatcga actaccagac 120  
 atggagagcg gtattttaat ttttatcatg ctgtaattgt aatgctagga ggataggcta 180  
 atttcaacaa gagacatctg gatgcaaagt ttaatttgaa ttatgccaaa ctgccagac 240  
 atcgggtgta ggtatctgtg cctt 264

<210> 21931  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <400> 21931  
  
 tcgagccaaa atcccaagtc actataaacc ttgacttata gtgagaatgc ccatccttgc 60  
 cctcagaaga aaacaaaaca aaaaaagaaa gttcccgatc aaggattgga agaaagcaaa 120  
 agaagaaaat tccaatcaa agattgggag aaagcaaaaa gaaagaaatt cctgatcaaa 180  
 gatcataaga aaacagaaga aatatgcaga aaggtctttg gactagacaa tatatgaaca 240

atacagaatt gtcaccacca aataaggaaa gaaaggaaac cacgatatga agtggtcctc 300  
 tccctttgat aagaaagggtg acttttctgt ctgcactaa acaaaaacag aaaatgaaaa 360  
 ggccaaaaca ctgagagcca aatttcccac caaaaacacc attcccgata aagt 414

<210> 21932  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 21932

atctgtatat gtatcatata actattagca ttatgcttct aagtttcttg gaaaacatag 60  
 aaggatataga gttaggctctt cattaagaac tgtctgaccg acaaaacaaa cagctagtct 120  
 atcagcatgt aacttgatgc catgcaagtg tattcagtaa aaggctttgt acttttgact 180  
 ctttgatggc cgtgatgcga gattgtgact tgttggcata gaatctctaa gatataccaa 240  
 acagtgaggt tttggctctt gaaatggtgg tttgaatgcc ggaaggatct tgtggtgcta 300  
 gaaagaatgc ttgagcagct gatcttgcca atgccaaaag gagaatctag acttgt 356

<210> 21933  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 21933

tggtgatagc ttgtgatgtt gcttgagcat tgagttttat ttatttttct gtggagattc 60  
 acgtcacatt ggaaagttga atcaaaaccc aatcgaaagg actcacgatt catattaaaa 120  
 cactaagaaa tgagtgagtt atatcctatg ctagttggcc ttgttgctta taaaaagttg 180  
 aataaattat gttgcatgat ttgcattctc aaaattttat ggacatggga tctgaatgag 240  
 ttcgattata tataaaatta acacattctg agctttcttt aaatgtaaaa atatgctcat 300  
 tttcataa 308

<210> 21934  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 21934

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 gtggcctcag atatcttaag aaggggggtt gaattaagat atcacagact attccccaac 120  
 taaatattct acttttaatt tgatccaaca acccaaaatt ccctttaaaa atgaactcct 180  
 aaataataat gcaaattaat tcttactgaa tagaaataat aagcaataaa caataaagga 240  
 gtttaaggga agagaaaatg caaactcaga ttataactgg ttcggccaca cccttggtgc 300  
 tacgttcagt cccaagcaa cccgcttgag agttccacta tcttgcaaaa tccctttaca 360  
 agttctgaac cacacaagga caacccttcc ttgtgttca aatttcttta caacaag 417

<210> 21935  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 21935

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 ataaataaaa gcaacaatga tgcgcatacg ataactctaa ttctaaaaca tatcatgacc 120  
 tatatttatt acaagaattt aatttataga aatttaaagc cttttcttct attttccatt 180  
 atataataa taccatcata ggaatctttt ttatattatt atctaattgat gtggaaaaac 240  
 atatcaatat ccatatgcac atgtgcatgg aggacaaaaa gcaaatatgc atatttgaat 300  
 catccagcca tagatgacat gga 323

<210> 21936  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 21936

cccatgcggg cacatataat ggcgtaacat atggggcgag aaccttggat gctcttccaa 60  
 tcatttgcta catgatcaat atcgttttgc aagataacia agcatactct tatgtttcag 120  
 cccctatctc tatccgtaac tacgattgaa tgcgtctcgc tttcatgatg acgtaccggg 180  
 tcaactgacgg acttagagtg cttgccttgc cgccatgcta acttattata cgtgat 236

<210> 21937  
 <211> 373  
 <212> DNA



<213> Glycine max

<400> 21937

agcttttgact tgagtcacatca agagattata aatatgtgac catggcatga gtttcaaaaa 60  
tgatcaatca tctttgaatc atctatcttt caatctttct tcaatatcat atctcaaaca 120  
tctttcaatc aatctttcaa tatcattcta caaaattttc tgattcattt ctcttcatct 180  
ttctaaaagt tttttatcaa cactttctct tccaagaaaa gttctttgtt caaaaacttg 240  
tgctattcat ctttttcatt ctctcttcc tttgccaaaa gaacaaagga ctaaccgcct 300  
gaattctttt gtgtctctct tctcccttac aaaagattca aaggactaac cgcctgagaa 360  
ttcttttgat tct 373

<210> 21938

<211> 424

<212> DNA

<213> Glycine max

<400> 21938

agctacaaga gcgtgggaaa gttagataga aagtatgttc tactgatatg tatagcattg 60  
tagattgttt tcattgctga aaaagttgca tctttattta tccaagatgt gtataatttt 120  
aggttttgtc atttttttat gggtagagct tctttcttta aattcttctg ccaattatct 180  
tcacttgctt gtattaattt gtttagaagc tataactaaaa attagttatg gacttgcggg 240  
agttggttca tgagtcctaa aactcttgcc acgaaactaa tattacttgg ctagagcaaa 300  
actaatatta ctcttgacaa attttctac tgggtagaca agtatccaga gggtataagt 360  
agtatatact gggttaagtt cgacaaattt ccttataata tgtcttcaaa attccaaatt 420  
aact 424

<210> 21939

<211> 383

<212> DNA

<213> Glycine max

<400> 21939

agcttgata taattatcat ttgttttggc taataacaaa ctgaacgtta cattgttaac 60  
attagatagt gaatatctat cgactagtga atagaatgaa atcttatttt agttcgttat 120

ctaattttac ctttctcaat aattaaagct tataatcttc taactcccggt ttcgtcttta 180  
 aaatgtatct ttaaaattta tgagtttaaat aaccatttta gtatataaaa atttacatgg 240  
 tcaattatca atcaattaaa agtcataaaa tcattctcat tataattttt aaaatagtta 300  
 tattataaaa ataataaatt tatcatatga gatgctttgt cattgatctg tgattgaata 360  
 attaggtgtg ttatacttat tct 383

<210> 21940  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 21940

agcttgtgtc tctagttcct cccgaataaa tctttgtgtt ttagtgtaa attatctatt 60  
 taatcaatcg tttaaaaaaa tattgttaga atataaaatc aattagacat tttgctttgt 120  
 gttataaaaa acacggaaaa aataaaatat gacagataga aaaggccgaa gaaattaaaa 180  
 aaagaacaaa aaatggaaaa gaagtgaact caatcctatc ttactctttt tagtgtggca 240  
 tgggtgtgatg accttgctct ctgccattta ccattttcat catagcaatt catctttaca 300  
 gcacatcatg tacgtacctt atggctctat gcgaatggat taatt 345

<210> 21941  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 21941

agctttataa gtgcggttct tggtgacaaa ggtcaagcgt tcgcatatg cgaagatgat 60  
 attccgagta ctttggattt ggtacgacca tgctctctg atttccagct gggaaattgg 120  
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaacctt tacggtttta 180  
 aaagctctat agttgggect aggctttaga gctttcattt tgtaaggct ttgtgtcttt 240  
 tgtttttgaa tttataatac aaggatcttt cttcatctgt tcttggctct taccattct 300  
 cattcatttg catgtttact tctttttcta aaacggcaga ttcgatgacg agtccccga 360  
 aggtactaat acc 373

<210> 21942

<211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21942

tagaatggct agacatgata catgtcangg tttggtttgg ttcaaagctc tgagaatggc 60  
 tagacatgat acatgtcagg gtttggtttg gttcaaggat aaaagggatg cccacacatta 120  
 tttccatgac acaaatgcaa aaatgatgat ttggaaactt catgcaaaac tggatcatgca 180  
 tgcacctatg tggacactca agtgtcaa atttatgggtc atgtgatgct aggactcaag 240  
 attcatttcc tctattttta atcaacccaa tgtttccaaa atatgttctt ttatcaattt 300  
 gtgcattcat ccaagtccat ttcgggcgtc cggtgaaatt tcacagcatt cacccttcag 360  
 gtgtagacac atttttcaaa aattggttat gatcaatgaa ttcttttttc 409

<210> 21943  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 21943

agcttttcta atttattcaa taagatgcat gaataattta atcataaatc ataaattcca 60  
 tacatgatgt aattattcat gtatcttatt gaatatatag atcttatggg tatttcatat 120  
 aattagttaa ttaactgggtg attattttct gaccaagcct ggtgattatt tcatacgttt 180  
 agttaattaa ttgattttgt tttatatttt atttattaat ttttcataat ggagatgaat 240  
 tctagacaat tcatgtttga aacacaggat gcattgttta gtagcattta ctttgtgatc 300  
 tgtgtctcag tttgtgttgg aaagactagc tgtactcagt ctactgtgat ttgttttact 360  
 tcat 364

<210> 21944  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 21944

ctcttcacat ttgaatttga atttcaacgt tcaaaggcac tggtaatcga ttaccaaacc 60  
 attgtaatcg attacaactt tttgaaatca gttggaacgt tgtaaatca tttgaaaact 120

ttttcaaadc cattttgcta ctggtaatcg attacaacaa tctggtaatc gattaccaga 180  
gagtaaaaac tctttggtaa acatgttttg agaaaaatcc atgtgctact caatttttga 240  
gaaaaacctt ttcatactta tcttgattaa gccttctctt gattcttgaa tctcgagtct 300  
tgaatcttga tctcttgaat cttgattctt gaaatcttgg tctcttgact cttgattctt 360  
gaaatcaaac ttccttttga atcttgaaga gttcttgaat ctat 404

<210> 21945  
<211> 382  
<212> DNA  
<213> Glycine max  
<400> 21945

agcttgcttg tggagctttt atggaggctg gatctttgag gtgagaggag gcgccatcca 60  
ctatggaata agccatggaa gaaggagctt cgccaccaag agagtgcctt ggataaaaag 120  
cttggagagg gtgcttcaat ggaggaaaag aaagagagag agaaagagag agggggggagc 180  
atgaaattga aggaagaaaa gaggaagaga agttgaactt tgaagtttgt ctcacaagac 240  
tctcatgcat caaagttaca acaagtgtta cacatgcttc tatttatagc ctaggtagct 300  
tccttgagaa gcttctttga gaagcttcct tgagaagcta gagcttagct acacacacca 360  
ttctaataac taagctcacc tc 382

<210> 21946  
<211> 424  
<212> DNA  
<213> Glycine max  
<400> 21946

aaccgatata ctaagtaagt taccaactca attgtatgct agtcaaccgt taccttcatt 60  
tgttttgcag gttacagggt gcacactttg tgggtggagct catggggccag gcttgtgtat 120  
tccactgaa gaaacatctc atgaagttaa ttacatggga aaccagccta gacaaaactt 180  
taatgtagtt ggattttctg gatttcaaca tggccaacct taccagcagc ataataatg 240  
gagaactcac cctagtaatc agttcaataa agaccagggt gggccacctt ataggccaca 300  
acaacaaggg cctagcttat atgagagaac aaaaaagctg gaagaaactc ttgctcagtt 360  
tatgcagggt tcattgacta atcataagag cacatagtca gccataaaaa atctagaggt 420

ccag

424

<210> 21947  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21947

ttatgcaagc ttactctcac ataaagctat atcagaacca gacattacta atgaaaatta 60  
ccaatcatcc tttcctttgt ggaactttaa atcattcaaa atctcaatgg aagcataaca 120  
attattcaca gaaaagttca ttgctaagtc aaaacaagaa ttcatacagga taaatttagg 180  
acaagatata gctaaaaatt aaacaagcta tcaaaatgag gctagtacta tagcacatgc 240  
ctctttgngt agaatgtaca aactaagggtt acaaccaaag tcaactacctc aaatgggtta 300  
atccatgtgc atacacaaaa ttaagaagat agtccccctt aggtagacat atccttaact 360  
tagtatgttc c 371

<210> 21948  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21948

tattagaaat ttcattgtgt catgtgataa agaccttagg aagctaatta ttgtctcccg 60  
gaagaagatt tacagacttc ttcaggaagg ggggttgggt gtagatcaat caaatcgatt 120  
aaccgagcat ccattcttgc acatacttga agcatgatga ccaatgatct tgggctaagc 180  
aaataaaagc cagccagagt tttcaacgat aactaccgca tgcgggggtta tattaagtct 240  
tttatatggt tgggttgaag cttttttgga actcgggttag ccaaaacacc ttttggatgc 300  
ttggcaatgg caaaagaatc aattntttat gcgataattg gattcaacaa aatattgctt 360  
caaccttgaa tattctagaa tcttatcaac aacatcttca agccttagt 409

<210> 21949  
<211> 375  
<212> DNA  
<213> Glycine max

[illegible]

<400>	21950
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<210>	21951
<211>	540
<212>	DNA
<213>	Glycine max

gagatgcatc cacacgaatc gaggaatgta atgacacgaa ccgcatctnt taaatataaa 60  
gagcagtaag atgaaccctt gactgacgcg ctcgatacac tgggaaagctc agaanacaca 120  
agccactcac cgcggggagc ggaatatgta aatggaagtg ttttgcgaaa cgctaggcac 180

tcaacgaaga attggaaaag aatcacaaca aggaaaaagc ggtaggaaca gctaacaacg 240  
aagccaccac agctataaag acgatctggg gacaccaatg caagacacgc cgagcaagca 300  
acagacgtgg gagacacaac gccaaagatta gccgaccacg ctatgaacag acacaagagc 360  
gagcaccctt atgtgaaaat aaccgccccg cgcataaggc ccatcgcagc agacgctgca 420  
agcaacttaa acaatgaaca ccgtggagga gaaactcgag attccatggc ccagcaccta 480  
gaacacggcg ccaccaatcc cctttgcacc gaagaatacc gatggatgaa cacggggacg 540

<210> 21952  
<211> 542  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21952

aaagaatggn nnaccagccc accacnccga cgcgnnanga ngnggaagag ggagaaaaca 60  
gacgcaacan aacagcaccg gagnaantt tgagccctgt gaagccctga caactcnagg 120  
cgaaccacgc gcagccccgg agaccctctg caggcaagca ggctgtctgc aatcatgccc 180  
aaaagatgca tgaaggactt caataacaga tcaagacgtg catacaggac ggaacgactc 240  
acgtacatca agaagcaaca gaacacatgg ggagaaaaca gaaagcgaaa aagaacaggt 300  
gaccatgagg tgaccgagcc aggtgaacat agacaacgac ggagacaaca acctgaacca 360  
gataagtacc tgactagcc aatgcgcgag acggagacga atgagcaaca ataccaggat 420  
gggccgcagg agacacggcc taccagcgaa gcacggggcg gcagagcaaa aacagagcaa 480  
taaaacaacc ggacagaacg ataggcggga acaggataag caatgcgcag atagacggtc 540  
gg 542

<210> 21953  
<211> 126  
<212> DNA  
<213> Glycine max

<400> 21953

tgttcagaat tctaaagtaa tctctaata ctaatgtcac gtgacattct aagttgagta 60  
gtgattaaca ctttgattta ttggattgat tatagaacta atttctttta atctcagatt 120

<210> 21954  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 21954

agcttggtga gaaaagggtc aagaagaatt accatcctgc ttgggctgct gcttacattc 60  
 ttgacccgct ttacttagtg aggacacta gtgggaagta ccttccgccg ttttaagtact 120  
 tgacaccaga acaggagaag gatgtcgata ggctcataac tagactcggt gcaagagatg 180  
 aagcgcatat tgctctgatg gagctcatga agtggaggac agaagggctt gacccggttt 240  
 acgctcaagc tggtcagatg aaggagaggg atccggtcac cggaagatg aggattgtca 300  
 atccacagag cagtaggctt gtgtgggaaa cttatttgac tgaattcaag tccttgggga 360  
 aagttgcagt gagg 374

<210> 21955  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 21955

tagaagacac attcatgaat aatgaccaat tgggtgttaa gttccaagac ttgggtggaaa 60  
 ataaaagtca tacattcact agattttgtg atgtgttatt gcattagaat cttttttttc 120  
 acaagatgct tatggactat atagtctttt gaaaattttg aaagtacctg taagagaacc 180  
 aaacaatgat aagtttagtac ttttctaatac aaattggaca tatcactctt gtaagcatat 240  
 actgataaat tgagaggagg tccaattatt tttaaatagt cttaatgggtg gcataagggtg 300  
 agttgatgat gatagtagac acttataaac attaatgttt aagtgaatta taactcaagt 360  
 agagttttta tacttagtga caaatgtgtt cttgtgggag gtgcttactt c 411

<210> 21956  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 21956



ttagacaaaa tggatgagtt ggagagatgt tcatgttatg ttgattgaag agtttcaatg 60  
 ttgtttatat ttacatatcc atctgattca aagtctgac cttttgatgt agtggttgcc 120  
 attagaaaaa ggttggtttt ttcttcttct tcttcgattt cctcatcgaa tgatgtgtca 180  
 tcttggtctt cccaagtgt cattagtact ttgttgtcct ttggcttgaa gtaccttttc 240  
 ttgtggtatg tcttttcaag atctggatat tctgacttga agtgctctgg tttcttacac 300  
 ttatagcata tgatggaact tttatcccta tctttccttt ctttatatgg attcttggat 360  
 cccttccact ttgattcgtt ccctttcttc cacatgttcc tta 403

<210> 21957  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 21957

agcttgtata atggctagac atgatacatg tcatgggtctg gtattgggtca aggataaaaag 60  
 ggatacccca cattatttcc atgacacaaa tgcagaaatg aagatttgga aattttatgc 120  
 aaaactgggtc atgcatgcac ctacatgggtc gctcaagtgt caaattttta tggatcatgtg 180  
 atgctagggc ttatgattca ttttctctat attaaatcaa cccatatgtt ccaaaatatg 240  
 ttcctttatc aatttgtgca ttcacactag tccattttcg gcgcccgggg aaatttcaca 300  
 gcattcacc cttcaagtga gacacattgt tcagaaattg cgtatgatca atgaaatttt 360  
 c 361

<210> 21958  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 21958

gtgctttatg cttaaaagcc acacactgtt caatggagtg tcatgggaca ccaccatgat 60  
 aggcgaatgt aatgataggc gcatgtaatg ttgggattat accatcgggg aactagaggt 120  
 tcatagatct ttctggggt tactattgct atttggttat caagaaagta tggtagtagg 180  
 ttaatgtatg acattggaat tggggcaa ataggactggtt tcttttctgg gaaatctctt 240  
 ctgggttagt gtttaggata ggattgggag tagtggttgg tctatgttgt ataaggggtg 300

gattctgtgg gtgattttgg ggtggtctat gagggtgatt gggaactctt ggtccaacgt 360  
 ggactgggca tggggagggt taatat 386

<210> 21959  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 21959

agcttttacc ttttttattg cctgactggt acaacttaca agttgcaacc catttcttat 60  
 agttgttccc cctcttatta tgttgtttgt tttgagaatg tttcttggtt tggctcctta 120  
 gaattaattc tctctctctc tctctcaatc ttggatcact tatctacttt gaactatattt 180  
 tcttgatgc actgagacag cataacttat gcttgatct catgcttcag tctgagttca 240  
 gtacaagtcc catatctttt tcattttata attcgctttt gggatgtgca ctacagggt 300  
 ctcagtctca gagctaaatg tagcacaggc aaattttgat aaagatgagc gtgtgtactg 360  
 tgtgcatgt ttctcacttt tttt 384

<210> 21960  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 21960

agctgtaaga gtttaacaga ttgaaaagcc cccaagttat ttctagttag agtgtatttg 60  
 ttttaaataag ttttagtagct tacaagccag ttaacatttg accaaaaata agttattaaa 120  
 agtgttttgt tagaaagttt ttcttgaaaa aactacacca agttaaaaat ttttaattga 180  
 taagttaata aagtagcgta tgacttataa gagtgctata ttttactctt gtttaacttct 240  
 ttttttaaaa aaatgacaac ttatttacta aatattttca tttcatgcag tctgtactct 300  
 gtacattcat gggcaacctc gtagtacagt tgagacgcgt gttgtaagat attaaaactc 360  
 tgtgaaagtg gcttgccata tttcattttt aagcatatat atgtggatga agcttgatat 420  
 cttta 425

<210> 21961  
 <211> 290  
 <212> DNA

<213> Glycine max

<400> 21961

ggtaatgact gtgcctgaaa ccagctatgc ctctgcgatg aaatttaagc tttctcctgt 60  
ggcacttggt attttactag gtaactattc acctttactt ggagtgtccc aacatagtgc 120  
cttcaacgcc gggcgctcca tgacctctac ccgcctagtt tccgtcagac aaaagggggg 180  
gtattctgca gaggagtccct gcaaaccgcg ggacgtgcaa cccatcgaat aatgcccttg 240  
agtgcctctt acatgcgtcc aatacttctc actgattcac attgacatcc 290

<210> 21962

<211> 380

<212> DNA

<213> Glycine max

<400> 21962

agcttggaag attccactac gattaaaggg ttcctctcgg tgtgggggtt caacggagag 60  
ctacggcggc ttatggcggc caccggtggt tgtgggtggt ggagaagaag cttgggacgt 120  
tggaatggt tttggggaag aggaagagaa aggaaagact gtttttccaa ggctacacga 180  
aaaataaggc ttgcaacact caagtgttct tgctctcggg aaaggaagcg tcttgaacac 240  
accagaattc atatcgcaaa tcgcaacagt cagatcgtgg aaagctgtcc tatgaacctc 300  
cagaccaagt ttggagatga tccaactggt aacaaatgca gaacggtggt tttaccgaga 360  
gagcttcaca cagcttcctt 380

<210> 21963

<211> 179

<212> DNA

<213> Glycine max

<400> 21963

tatggactta ccttgaatta attcctttgt taaccctttt gagccttggt tccctttcct 60  
tgatttgaag ctactacaa gccttaagtg aaaaaccatg atatcaccat atccttaagg 120  
aattttggag ctttgaatt gttttgggaa taagtgtgtg tgtgtgtggg gggggggggg 179

<210> 21964

<211> 382

<212> DNA

<213> Glycine max

<400> 21964

agcttaaaca ggttttagctt gatggatagt attagaagat atgaaaatat ctaattatat 60  
tttaaagtat tttctattat gctttggtat taagtggat cctatttccc cgttttctct 120  
taggattggt tacatttcct tatcccatga tttagtacct agtagcccat tcttgaccac 180  
aagggatgac tccaaatact ctttaatact taagcaaact ccaaaataaa tattagacaa 240  
acaaataaga acaaacaagt cttaatcaaa ggagtatact tccatcatcc ttaacatcat 300  
agccttaaaa gcctattacc ccaaccacaa aggaacatag agacaaacta actagacctc 360  
tccattcccg tttacattat ca 382

<210> 21965

<211> 380

<212> DNA

<213> Glycine max

<400> 21965

ttataagcgc gggctctggga aattggtacg accatgccct cctgattttc agcttggatt 60  
tggtacgacc atgccctcct gatttccagc tgggaaattg gcgagtggag gaacgctccg 120  
gcatttacgc gacgagcata atgtaaacct ttacggtttt aaaagctcta tagttgggcc 180  
taggctttag agtttttcct tttgttaagg ctttgtgtct tttgtttttg aatttataat 240  
acaaggatct ttcttcatct gttcctggtc tctaccatt ctcattcatt tgcattgtta 300  
cttctttttc tgaaacggca gattcgatga cgagtccccc gaaggacta atacctggga 360  
cccgttatc gattcgagc 380

<210> 21966

<211> 366

<212> DNA

<213> Glycine max

<400> 21966

agctttaacc tcatcgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60  
ccggactctc agccatttat gatagccgcc gatgctccca ttactgcttc ccctaagctc 120  
tttgccttt cttcacaccg catcacatgc cttgtgaatt ccttagagta ccctcgcat 180

ggggtcactg aaaccccggtg tgatgaaagg cgtgatgctt tcgtctgatg tcaactcctct 240  
catggggtag ccaagctgtc ttatggcgag gacgggatta taattaatac aaccccttgt 300  
tcccatcaag ggaacatttg gacatccttc gcatgaagat agaatcctga ttcttccttc 360  
gttcta 366

<210> 21967  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21967

catctccagc ataatggtta attgtgaaaa agtctcatga gttgagggaa aatgctgtag 60  
aaaacaagaa tataattaca atttcaacta ttatataatc aattaaaaat gcgaccaca 120  
aaagcatatg gattatggta aacagaagat ttcaaaaata actaaagaag taagaagata 180  
atacacaatg ctatattaac tgtaattgtc aatcatatta tattcggaat aaaagccatt 240  
aaccacagga atgcttttca aaacaaaaaa taaaacaaaa gaatgtttgg aggtcacagt 300  
cacagtaatg tagaacctgc acagatcgaa ccaagcatac gaattctaaa tctaagaaca 360  
aaaaggaaga aaactacaca ttctcaagct tacatctnca gcataatggt taattgtgaa 420  
aaag 424

<210> 21968  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 21968

agcttattaa aatgaactta caaacttata aaaatattac aaaccgcttt tataagtta 60  
aataaactct accaagattt ttatatattt caagccaaaa gaaagtataa ttgcaaaag 120  
cattttccct tattaagggg ccatgctaaa gagtcaattt atataatact ggaagcatag 180  
aagcagtacc acataaacia accctataca agtttgcttt cataattgac ttaatctgtc 240  
atgcggtctga gtggtcgccc tttagcataa gattttgaca gaatcaacat catccaaacc 300  
taataaggta gggttagtta catagattca attccatttt gtgttatact cttatatccc 360  
aattatatgt atgaaaaaga 380

<210> 21969  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 21969

tgtccatata tagagtcatt acttgcata ctttgtatta cgttcacgaa atatttaagc 60  
 atgtataatt aagtatctcc ttgaaaagta ttgaagattt ggtccaaaat aataagaacg 120  
 catgttttgg cgtatgcatg atattcttaa tgggtacaagg tttgtaaaag tggcacttat 180  
 gtgggtcaaaa taaacttgta gaagaagaaa gttacgacca gtgatgattg gcattcttaa 240  
 tcaagtgtgc acaatagggt tatttcaatt agtgcgtgctt tttgtgtatc aattatgcac 300  
 ttaattggct ttaagattct ccgtccaagg aaatattgtg ggcgcgtcat tgtgcaagtg 360  
 aatgagacag aaaatgattg gagagcaaga atgaataaca catgcaata 409

<210> 21970  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 21970

agcttgaata aaataatgga aaaaagggaa aaccctttgt atttttaaaa ccaaaaagct 60  
 tttctctctc ctactcagc caaagcagaa attcagaagc cttttctctc cctctctcac 120  
 gtagctttct tcttcttcat tctccattga agcttcaagc aaagcttcaa cctttggcca 180  
 ccatttctgc cccaaatcgt gaaaggagag catatttgga gtcgtgaagt gcgtggctac 240  
 gagggggact tcgaaatttc aggggtgggt ggacttctat cccttttgat tttcgtgggt 300  
 atggggggtt gcgagatatg 320

<210> 21971  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21971

ngagcgtagt ggaagaaaag ttcttgatat agatttttcc tccttctaga tatatcagtg 60

caaagtcaga tgtttccact ttcaagttaa aaccagatga acccatctgt gaagtctgga 120  
 agtgattcaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttacccatc 180  
 taagcatatt ttgcaatggc ctaaggccta aaactaagat gattctggat gcagtcgcta 240  
 gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300  
 caactgatca ccaatctcag cataacagac aatcgatata taaaagagga gtgttggatc 360  
 tcattctcaa gggctcttca atggaagtgt ataaacattt tg 402

<210> 21972  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 21972

atgataacga agaatatgac gaatagctca taagtcacga acacttcatg ataacaaaag 60  
 ctgacaatct caagaatcaa agaatgagct taaaattgaa tcatgtacac ttcaacgatc 120  
 aagaggaaag ctgaattcaa gaatcatgtt tcaagatcca agttccaaga tccaagatca 180  
 agactcaaga ctcacgattc aggaattaag agaagactcc atcgagataa gttctaaaag 240  
 ttttttttaa aaaaaaaact ctgaatagca catgaatctt tctcaaactt ttacacaaaa 300  
 gttctactct ctggaatcga taccagatat t 331

<210> 21973  
 <211> 716  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21973

ggagactgga cctgagactg tacctttgan tcccntnaan tctanatact cagctaaatg 60  
 cgctagtgat gatcggttgc tacacanatt ttacctaggt ggagctggat ttgttccaga 120  
 ggctaagtgc aaagccttta gatgcaataa acccggtcga tactatacta ggctgtacg 180  
 cattatctcg ctgcgggaga ccaatggtaa tccggatcaa gagtggctca ttcgatgagt 240  
 gaggtggagc ctgaactatg catcattctg tctacttggc tcacatgtca attatagcaa 300  
 ttctgtgatt catacactca catagtgcgt tcccacacta gcatagtcgg tcgtcgatgt 360  
 gatctcttac acgacagtga cagctgcctc tctacgttat gtactctgtc attctcttgt 420

gatcaatatg catagatatc tgcagacgta atacctgttc ngctatgtat catcaçacag 480  
atgcatgccg gtagncgat cgtaacgact ctactcatcg cgcttagact cgacacatca 540  
tgcattgata ggcgatacat catcagctct acatgtctga gtaaaatcac ccatacaccg 600  
cttaatgttg acgcaagatg acgtcataac tgctcctaac ccgtacagca tgcgacagta 660  
gcagtcgtcg tacgggtgaa cgggtcatct acttgacgtg gcgtacgtaa tctcgc 716

<210> 21974  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 21974

agcttgccgc catggaagtt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60  
agagagcaag aaatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120  
agaagcggta tgttccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggt gatgagtatt taaggaaaag gatgtgctca tgatttaagc 240  
aaatattgat gaatatgagg agggaaactat ggctcgactt cttaatggtc tgactaatga 300  
tatccgtgat cttgttgagc t 321

<210> 21975  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 21975

atttctcatg agtttccggt gttcttttcg agcgtgtaga tgacgtatgt ccccgatcg 60  
gacatctgtg tgaaaagtta tgaccattcg atcttctcga gagcttccgt tgttcaattt 120  
ctagcgtctc gatataattat gtccccgaat cggacatccg tgtgaaaacg tatgaccatt 180  
ccattttctc gagagcttct cgtgttcaat ttcgagcgtc tagatgagtt atgtccccga 240  
atcgaacatt cgagtgaaaa cttatgacca tgcgaatctc tcgagagctt gcgttggtta 300  
atttcgagcg 310

<210> 21976  
<211> 360



<212> DNA  
<213> Glycine max

<400> 21976

tttttgaag cttaatgata ccaaaacaag atgattatta tacacccatc tcactacatt 60  
aatattaacg atgacataat ataattctaa gcatgtacat agaacacact gtaacatgaa 120  
tctatcttta cgtcaatacc acaacaatct ataactggaa gtcctagtgc tgcttatgat 180  
agattaacac ttatcatcac aactacatag caataagggc actatcaacc acattcacia 240  
ctgacctgta atgaagggtcc tgctccctgt gcttacacia ataaatggga cagaattatc 300  
cactgcagct gcaataagcc ttaccagcac agtcgaatct aatctgagaa caccaccctg 360

<210> 21977  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 21977

atgaccgatc gtttacaaaa tatcttttca acgtgttatt ctcttgcta aggaccaatg 60  
cataggagtt gggattggct tggagaagat ctttatcaag atcaattgag atcagccctg 120  
cactgtggcc catcccacca aggttgtagc tctttatata tccccgcagc ttgcaatgat 180  
tgacaatcat tgccgaaagt gatggagtat ggttgaacag actacacttt acaatcagaa 240  
ttccaatgtc tttatgcttt acagacggtt tagctaatag tgcataatg gcaccaaaca 300  
tcacagcctc ggcttctttt ctaacttctt tcattgaatg gttgggagga atgttgagga 360  
catcctcatg atggtaagtg ctctcccaaa tgtcagatct ct 402

<210> 21978  
<211> 298  
<212> DNA  
<213> Glycine max

<400> 21978

atgccaatct cccctgcaa aagtatcggg tgggtctgtga cggtccgaca tgggtaagta 60  
tgcatatagt tcaactgatt tctgatacca tctattgttt gcagggatcg caccacaag 120  
acaccagtg gaccgataa agttcaacag ggccctgagg tttccagctc tggttacggg 180  
cctctatcag tcttacaagg tgcccgtaac cccccgcaa ggtaacgtca tcatatgtaa 240

gtatgcacat cgctcaactg atttctgatt tcatcttaatt gttgcaggga tcgcgcct 298

<210> 21979  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 21979

tctacttatg tggcatggca ggcttctctc actttcttgt ctccaacgcg agctttgacc 60  
actgttcttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
accatacttc ccacgatttc cttgggtatc tatcaggcta gttatgccgc cgttgttttt 180  
gcctaaacct atcccgggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240  
tgcatcggac agacaaggct gcccacagag ggagtccacg gaggaatgc tgaccacctc 300  
aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggaaga 360  
tgggcagctt accaagatat cttcctcgcc tgacacgatg acta 404

<210> 21980  
<211> 532  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21980

gattgtatgc gnnnnacatc gtcncctcn cgcactcaan annanantt nagagtaaag 60  
tatcatatgt aataacntan cagtacacaa cagacattgg agcctattga agccttggat 120  
gccatcgaac actcaaggcg aattcgactc gcacccgaga tcctataagt cttctgcagc 180  
atgcagcttt tatattataa acagaaaactt ctaagaaata agaaaaataa aggggaaata 240  
agtaccggga caccaccatta aggctaaaga taaaaggagc ttataacgcc tgcccatata 300  
ttgcaatacc tataaagact tgaacgctta tatectacac taataattaa attatctaca 360  
tttacaatat aattgaaacc taagacgcta agctccctct atgatgaaaa gactaaacta 420  
aagccatata cacaattctc ttaatccgtg attaaacagc aacgctttac tttcacgcca 480  
caacgaaaac aacaaactct ggcaataacg agcatatc gcaggaccag ag 532

<210> 21981

<211> 266  
 <212> DNA  
 <213> Glycine max

<400> 21981

accaacacta ctaatcgga tcatatatat cacactttac ccacacttta gtggaattta 60  
 gtgaacataa agtttattaa gataatctat gagaatgtga aactaaaagg gtgtcaagaa 120  
 tacatcatcc aataatttat aataaaacac gcaccccttg ctattttctc caatacacta 180  
 tgcaaataaa agtggcgga aaatgtacaa ggtgagaatg ccaaagcttc tcttttacta 240  
 tgtttaacct aattacacat gacttg 266

<210> 21982  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21982

agcttgactt tggtttagac atgattgata catgatttgg gacttgtaga aattgatttg 60  
 ggcaagattg gatgagggga agtgtggttt tcgaaatatg ctctttgtgc agattttgct 120  
 gtaaaattgt gcagcagaat tttgcacaag tgcagaaaaa tctatgtatt tgctggttgt 180  
 ggaaagagta atgtaaaatg agttctggat gttttctagt agatcccaac ggtcacaatg 240  
 taggcgtatg cactatagac ttccagtaaa attttgaggat cgatccaacg gttaacgaat 300  
 tggatcgaag gaattgttac tggngtcttt gagtgagaaa agctgtaatt ttggttggtg 360  
 tgttgagcag agttttctgc ctttgc 386

<210> 21983  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 21983

gagagcctaa ttggaatc atatgcacaa aactatgtga atttcgctca cgtttagatc 60  
 cgcacggtct tgcaattcgt catgcttttc ctccggtggc tttggcttct ccactgtgc 120  
 aattggtgga ttctccgctc tctggcggtg gccgcgctat ttccgccgga gcctcttctt 180  
 tcgtttcatc ttattcttca gggttattct catcttctgt aattatattt ttgtaagag 240

atgtaaataa gttgaaatga taatacaatt ttcttccatt ttgctttat tatggattcc 300  
 tcactgataa gtatctaata gctgcattac aaatacatt tgaatcctca gccacgaaca 360  
 ttatgacaat gaaaatgcaa caaacgtttc cacaatctaa agggcaggac aa 412

<210> 21984  
 <211> 71  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21984

agcttgact tgaggtnca nncaagctcc cgagacatga atgcaacaaa gatcggaatg 60  
 atcttaccat c 71

<210> 21985  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 21985

tgtggtgggc attctctacg ccattttcat cgctgtctgc atgtaaaatg acgggtcaagg 60  
 ctcttaagac agcaatgtaa agatgtaggg tatgataata gcaaggcaaa ttgaaataga 120  
 atatgtatat tggtatttca ttgatccttt gcatgatata tataatacat gtacaagaat 180  
 gtactatacc aattctaagg catgacagac gtgatccata atcagtggca tctgatttat 240  
 tctatgcatt ataaggtaaa taaatataga atcaaggtaa cataggaaaag taaatatata 300  
 cacagcatat ttgcaatcat gtagaagata ttccctaata ctccccctca agttggtgag 360  
 tgaatatcgt gaagtcccaa cttgttgccg aatgtcacia atagatcttt tcccatagc 419

<210> 21986  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 21986

agctttcagc caaaatccta actcaccata aaaaagagaa tgaaatttcc aatcaaagag 60  
 aatgcaaaaa aaaaaaaaag agaaggaaaa ttccaatca aaggaaaaag gagaggaaaag 120

gaaattccca atcaaagagt gggagaaaga aaaaaaaaag aaagaatatt cccaaccaa 180  
 gaatgggaga aagtaaaaaa aaaagaaagc tcttgggtcaa agaaaccaga agaaatgtgc 240  
 agagaggtct ttggaccaga caatatctga acaatacaga attgtcacca aatgaacaaa 300  
 agaaagaaaa ggaaaccata acctacaagt ggtcttctcc ctttgattac cagccaaaat 360  
 cctgtgcgctc ggtgacttgc tgcctc 387

<210> 21987  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21987

tcaagcttga agaaagagtc atagatgctn gtataaaatc tattttttat agtttgttat 60  
 cgcaatatgt attattgagc tcatcacctc acgaacgaat tctattaatt attttaatac 120  
 ggtaattct ttggacataa aacataataa cttgcatttt acatgcattt gaaggatcaa 180  
 atcagtataa agtaaaataa aggaggtaaa taaggagaaa ttgtttatct ttgaaggaca 240  
 taatgagaaa ttgttaagaa aataatcaaa tactactgcc cagttagata ctttgacttg 300  
 gtgccaaca gcaattagag tgcacaaaca atttctatct tgacttagtg tgcattgtgca 360  
 acagcaatta tagctttcaa cgggtcaaagt tctcactgcc acattaacta ttgttgccca 420  
 agtggcactt a 431

<210> 21988  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 21988

agctttgttc aggatttga aatttccacc atgtttactc atcaccagaa aattgtagtc 60  
 gtggatggtg aattgccgag tggagattct aataagagaa gaattgtgag ttttgtgggg 120  
 ggtattgatc tctgtgatgg aagatatgac actcaattcc attcactttt cagaaccctg 180  
 gacacagcac atcatgatga ctttcatcag cctaactttg gtggttcttc aataaaaaaa 240  
 ggtggtccaa gggaaccttg gcacgacac cattctcgac ttgaaggccc tattgcttgg 300  
 gatgttttgt tc 312

<210> 21989  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 21989

tgaattgaac atcggattga agaagagcgc gagtgatgtc gttgaggcaa tcgatgagca 60  
 ccttctcgtc gattactgtc gcattgtcga tcagctggag agcacgcgaa atgctccac 120  
 ctaactccgc cagaaccatc ttgatcttct tcccttcaac aattcaattt ccaaattaag 180  
 gtttgatgat gcaacaccaa cacggagggt tcagattcag attattgggtc tatctctctt 240  
 ccaccgccgg taaaatgagc ggtgcattat tgggagggaa aaaaagttaa actgtaacca 300  
 ctacatacta atgggccttg gctcggattg agccttcata ttgtaacca tgtcatgtgt 360  
 tgatccgtac gtaactgtat tacatgaaga agcttggtat gtggtgatgg aaaa 414

<210> 21990  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21990

agcttataag aacaaaattg ccttaatcat ttccaaatat gcatgtgaat tacgacgcat 60  
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaattg 120  
 attataatga tggatgggtc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180  
 tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240  
 aacttttatt ttcaaaacaa ttaccattt cttgaacata tcctataatt catagaaaaa 300  
 catgcaaagt cgtacgtgca cacgatattg acccanaata ttaaactgaa aattcgatga 360  
 aactaacaac attaacaat taac 384

<210> 21991  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 21991

atttaaattc aaatttccaa aagctgttac atacaatttt aacttctagt aatcgattac 60  
 atactgtgtg taattgatta caacatttta aaatcaaatt caaaatttgt aaaagtgttc 120  
 cagaaatcaa tttagccact ggtaatcgat tacatccttt ggtaatcgat taccagagag 180  
 aaaatatcat atttttgaaa tttcaaaaag cttttgtaaa atatccttta cccaaaccta 240  
 tgcagcatca attaaggaat tctttctaag atcctaggaa ctaagtacat cattcttctt 300  
 gaatttctgg attcttgact tgaatcgcg ccatatttgg catcatcaaa actttatatc 360  
 atatatgctt ctacaatctc cccctttttt atgatgacaa taatttgaaa tcaagat 417

<210> 21992  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 21992

tttatgcaag cttatactca gagcatcctt tgctatacac aaaaaagggg gaaaaagtat 60  
 cctcttgctt aaccctcat ttgcaaagaa aaaacccatg tgcctagaaa ttaacaacaa 120  
 gtgaaagaag attagatctt acaccgaaag catgcaacac cttaaaaagg aactaccaat 180  
 ccaacgtgtc gaaggctttt ttgatatctg actttactgc cattttacct caaattcttg 240  
 taatgcaaca tatttatagc ttctaagtga gtgcanatgt agttgggttat acttttgccc 300  
 ttaataaacc ctagtgttct ctctaaaatc ttaggggtta tagaagaaag cttgaaggag 360  
 atttggtgat gattttgaat 380

<210> 21993  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 21993

tgcaaagtta tgtctcgtat cgttttaatc aattttctacc ttctcataat cgattacata 60  
 attttttttg agtcaatgac tgattcattc aggagtctct gctttaatcg attaccatgt 120  
 gatataatca attacttctt tttctataag tagttcagaa gtgaacaaga acactttaat 180  
 tgattacttt gagtatctaa tcgattacat tgttcttgag ttgttttcag gttttaggaa 240  
 gaacactttg atcgattaac aagataatct aatcgattat ttcattgaat taatcaatta 300

tctttagat ttaatcaatt acaagtgggtt ataattatctt tctctataaa taactagttt 360  
gtgttctctt caaaatacta cacaattaac actataagcc tctgaatg 408

<210> 21994  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 21994

agctttttga tttatgtgat actttcttga tttttcaatt ggccttgggtg aataatattt 60  
ccagaatttt ataagtagaa gctctatgca caatcatttt cagtttctaa tttggacaat 120  
ctcaactttt gagtcaagat gggcaagtac agtgctttat ttcttctgtc aattgtttcc 180  
tatttgggtca catttatcac caggagaata cctgtgcaga catcttagcg tctcgtgcta 240  
cctcatgatt ntttgtggag tatgattttt ttgtgggtggg actcatacc cagttntatt 300  
cagaggaatg ttgtaaatga taganatgct agacctaact ntagaattag gtagagtttt 360  
ttcttggat 369

<210> 21995  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 21995

gggaaattgt ctcccaaatt gtattagatg tatatatgta gtataattgg tgctttgatt 60  
ataattcact tgtaagcatc aatattttta aaggctccctc atttcgttaa atttcttaca 120  
tggggttgat ggcgatgtta ttaatcattt tacctatcta acataccaat tttaagtatt 180  
tttttatcac actggttgtc tggctaagtt ctttgttttg ctacacttat ctcttgtgta 240  
ttcatacata gataatatgt catttgatag tatggttttg gtgtgggttg ggtagaaata 300  
cttgcagctg actaaagagt attggagtta ctatatccat tggctaaaat caaggttatc 360  
aaactagaca gcttacgtaa actcgtgag 389

<210> 21996  
<211> 346  
<212> DNA



<213> Glycine max

<400> 21996

ggtacccggc atatgtggta ctaagtggcg aacgggcat ggtgcaagtc gactcttcac 60  
atccacaaat cacacattaa tccaccatgc ccagttgccc accttcaact gagctcacgt 120  
acttccacgt agcctctata ctggttctt tcaacaccgg gtgccaatc attccttcaa 180  
gcttccacaa cattcaagca attccacatt caaacattat gaactatcaa aaccaagata 240  
cagggcatat gcataaaact ctctctaac acaaaccaaa ccacagcttt cttactcaat 300  
accccgtagt attcttttcg ttccaatcgt tcaccgtgga tcaact 346

<210> 21997

<211> 402

<212> DNA

<213> Glycine max

<400> 21997

gctgctctaa ttacattgat gtttttattt atgggatgag attgtatgtc atttttgttt 60  
taagaatagt atcccactgg taaaactaac ttccaaatg tttgccttcg caggaaatgg 120  
ccccgaggaa gcttgccctca aagaggcca agaaggacaa ggcacagaa ggaactagtt 180  
ccgctccgga gtatgatagt caccgcttta ggagcgcggt acaccagcaa cgcttcgaaa 240  
ccatcaaggg gtggtcgttt ctccgggagc gacgcgtcca gctcaggac gacgagtata 300  
ctgatttcca ggaggaaata gggcgccggc ggtgggcacc actgggtact cccatggcca 360  
agtttgatct agaaatagtc cttgagtttt atgccaatgc tt 402

<210> 21998

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21998

tggtgcaagc ttctccccca attttctata aataggggga gaagtgaagt agaaatgggt 60  
tcagccctt tggcacttct ctctctttcg aatttgctta ggaaaattat ttccgtgaag 120  
aaaatccaag ccgaggtgct tccgtaacct ttccgagatg tntccgtaag caaatccgtg 180  
aaggttttcg tccgttcttt accgttcttc atctgttctt cgttcttcaa tgggtaagtt 240

ttcgaatccg agactttcaa ttcattttctt gtttttttaa gctttcatct ttatttcggt 300  
cattttctat ttctttttctt tcactctgtaa cgcgctttta ccgtttattt aagccattnt 360  
ctcacctaataaatgat 377

<210> 21999  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 21999

tgcctaatta acctgaaatt gagagaaaat gattattaaa cactcttaataaaaaatacta 60  
agtatttatt acctatactt aacagaaaat acttataacc ttacaaaata accataaatt 120  
gggagagttt gatacaattt atataagttt tatacacaaa agttagtcat tttcaccaac 180  
taacagttgc cccaaattta cagttttgct tgtcctcaag caaaaagaga acaactcact 240  
tgtcctcaag tgacaatgac atgcagtgat tatgtacgaa ggtgtatgct acaaagtgc 300  
taattgcatg ataagagaat ggagtaaaat gccctcaaca cttgtcttta caacagttat 360  
ctaaagacaa gaataaaatg taacctgaac agatagatga agttaggcat 410

<210> 22000  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 22000

agcttgacca atcccgaccc aaccgggca tagtcggtca gtgagaacct gtgatgtacc 60  
taagcaggcg agctcctggc agtcaacaga taaaaggaaa acaagaccac aaagcaagga 120  
ggcttgtggt ggctggccag ctatgaattt tgtgtaatat gtggattgtg gcctctggta 180  
atcgattacc aagggtgggt aatcgattac aaggcttaaa attgaggaca ggaggctaag 240  
atggtctctg gtaatcgatt accaaggggt ggaatcgatt accaggcttg aaaacgaagt 300  
caggaaactt agggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagag 360  
gaatgggtca ctgg 374

<210> 22001  
<211> 414

<212> DNA  
<213> Glycine max

<400> 22001

taatgcggat caagttgatt cgcaagtttt gtgcgtatca acttgatctg cagttggtag 60  
ggttctctga ggctgaatgt ggatcaagtt gatctgagag attcatgggt tagcatatgg 120  
atcaagtaca aggtatatga ttcacaggag tattttcgat gaagttcctt catgcggatc 180  
aagttgatcc gcatgaatgt atttaaattt ttaaaaataa aaattagttt attatttatt 240  
aaaatgctat taaattaagg tttaggggta attatgaggc tgccttgta tgtgcctaaa 300  
aaggattata accacaagaa taattatttc cttggaaaag ataaatttta gtgacccta 360  
tataacactc ctcccatgag ttagaatcag aaccacaaga tcgtgggctt atgt 414

<210> 22002  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 22002

gcttagagct aggtttgcc catgttaaatt tcttactatt cgcttggtct tgcctaagtg 60  
attggctata tgttggcaca aattctggca aaaaattgac ttgttggtct ttactgtata 120  
atgcctatgg cttttcctcc atgccaagat atcaccatgt gccatgtgac ggagctaggt 180  
ttgtccatg ctaagtcatt gagaggttgt ccttcagtgg cgttattggc aagacatttc 240  
acatttgatg taaaaaattg acaccttggt attggttgat tttgtccatg gcttggttcc 300  
ccatgctgag atatcatcaa cccatgccaa gtttagaagc ttggttttcc ctgtgccatg 360  
gctttgactt gttcccatth tccgc 385

<210> 22003  
<211> 777  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22003

gatgctactg cnananacct angatgancg tttangcann nttgacgnng atttcttgat 60  
gnnaaccttt tgcannnana ncnannannn nnannaannn nnanannnt nancnacnag 120

ngcgacacna cgnanacatt tgtgttatgt atnacncgaa gntgtctatg ccacgcctgc 180  
 acaacngag acgaaacnaa ctgccgatga cagacgcgcg cgnatatat tctacgacca 240  
 gcanacacat taactanact tcnatcctct ctagcaatag aattagacga cattatatac 300  
 tgcngtgcgt tgattcgatg tacatgcgaa tgtatatgta tcgtgtcgtc acgatcacta 360  
 gcctacgatc tgtacggtat cttctcctgt accaatcata tagcattgtg attgttactc 420  
 gtaaggatca cgtatgctcc gtggncgcta tctgttctct acatctcatc accatgtgat 480  
 ctactcatac gtgcacgtct acgtgcatcn ataagtgtag tacaatcgta ctgccgctc 540  
 gtatgtagnt agtatgtact aatctgagtg catctgactc tctaagtaat atggttgtag 600  
 tcatgcatct catggttaaca taatatatga tactcggctc tcaactcgcgt tacttgctgt 660  
 tatgatactg tgctgcatca taatgtatcg agtgactctg tcgcgtagan tatgtgttat 720  
 ggacgtctct gttatcgta ctgctntatg tgaatacaag ntntatatat ctgccg 777

<210> 22004  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 22004

agcttgcatt cctaattaaa tggatggtct caaacttttg aataatatta gaaaggtcca 60  
 gttacttcat ttaattattt attgttcaaa caacttaatt ttagtggtta ataaaatttc 120  
 tttaatgggc agataaaaga ctaatttcca cattttatta gtggataaat cagaatacta 180  
 atgcaaaaact aaagaaagaa cataaattaa tagaaaaaga taaatccatt atacattttc 240  
 aaatatttca atcattttca tcttttatca cacaacttca aacgtgtgcc tagttgaata 300  
 tcaactcaacc acttaacatg taacattcta attaaaattg tttttagaca acctttaccg 360  
 tgggaaagta aagttttttt tc 382

<210> 22005  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22005

gagtgtggan cctgacacgt agctatgtcc gcgctctata caatactcaa gcttagaatt 60

atacaataac attttttggc caaccatgat gtccttctta attatcatgc tatcatggaa 120  
 cttcttggtc ttttcttgtt agaacttggc attctcgtag gcttctaggc ggatctcatc 180  
 taactcactc agttgcaact ttccttcttc accagcttga tccatagaga agttgcaggt 240  
 cttcactgcc tagtatgctt tgtgctcaat ctccactgga agatgacatg cctttccaaa 300  
 gacaaccgca taaggtgaca ttcctatggg tgctttgtag gcagtcctat gtgccc aaag 360  
 agcatcatct agcctagtag tccaatcttt cctgcttggc tacacaatct tctctaaaat 420  
 tctcttgatc tccctgtag aaatctctgc atgtccattg gtttgaggat ggtatgg 477

<210> 22006  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 22006  
 agcttgaacc tacttagtac tttgaaagaa gacaaaatat gtgttttttt taaccctttt 60  
 ttcgcttctc aagtattcaa tttattttgg ttgatatatg ttcattcaaa atagtcaaat 120  
 actcatgttt acaaataagt tgtagtttc aatgatattg attttgattt tttcaagagg 180  
 tctccgttca aatttcataa atgaaaaaaaa tatgattaaa aaaaaatttt cattaaaaat 240  
 gatccgttaa gttcaaaaaa gtaattaaaa tttatgtgaa tgtataaaaa aaatattgta 300  
 ccaaacaaaa actaatcatg gtcaaatagc ttgtaaattg taatatagcc aaattgatta 360  
 tacattaggt ttctatcttc acaaaa 386

<210> 22007  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 22007  
 ctaagcttat ctttttaata agtcatattt tctttatgaa tgtgcaaaaa atttaactta 60  
 tgcttaaaaa atttaattat ttatcaactt tattggacct tatttggtat gtaaacactt 120  
 gttgtttcat gattgttcta ccaaaaacat actccaatga ccatttctta ataagaatca 180  
 atgtttaata agttttcacc atatgaacac cttgtttgag atgccattag acacaaataa 240  
 ataattcgtc ccacatagct catctttaat aataaaaaaa gtctaatagcc gatatttatt 300

gttcagtga gtgatataat taagttagtt attttaatga ttaatatatt tcgataattc 360  
aaagaattta ttgtcaatta accaagttaa taaccatcac tcccgtcatg ggaaaaaaaa 420  
taaagt 426

<210> 22008  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 22008

agcttgcatt aggaattgcg tattccccac tccatcatta ggatcacttc ctgacatctc 60  
aaacaaacca atcaaacgta tcaagaccga aatagtggct gatagaatac ctcacacaca 120  
taagtgcatt acacaattat ggcttaacta taatgaaaca ctctagcctt tgaccactct 180  
aattaccctt gagctcttac gcaattcaag agattatggc cacaacaaag aacaattcac 240  
caacaagtg aaggttaaggc tagacaagga aaaggtgaac caagaaaaag gctaacaatg 300  
gttttacgca caaatgaagg aaataaaatt cagaatctaa cgacatcaag aaacaatcca 360  
t 361

<210> 22009  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22009

gcgcatgaaa cctgatactt tgaattgacg ccctcgatag actacgtaag ctcnggagga 60  
tngatgggga ctcggtgtat anaagaactt ctgttacggg ctttatggat tctcgaggc 120  
accaactgga ggtgggagac aggacgatcg cgggcttatg cgctcattag tggatgtggc 180  
aaaacttgtc gacacccatt gatccaccgg caacgaatac tacaagatga tggggccccc 240  
catgatccta caagctcgac atgacgaaaa cgtcgaaggg tgaaactcta ctgcttttat 300  
cgttgaccac agtgtggatc cgggagagat gttgccgggg ccaagaaatc ttggggacat 360  
catggggggg cgacactgcc ccaaactcat gtagtataat tctcaactca tcaactggcat 420  
ataccgttcg tgacaacccg tgacgaccac catcgccag ctctggggct gctacaatta 480

<210> 22010  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22010

atcccaccnn nacatcccc cgccccccg atangtatat gatgaataaa aaaagagagg 60  
 aagctgagct tgaacttgaa caccggaccg gaccagaag accgagotca gcttgtgggt 120  
 tcaccatcat gacgggcaaa cacacactac ttctctcata caataaacca gagaaggga 180  
 taaaggagcg acaaaaaggc atgcatgcta atgataaagt gtaacaacca aaataacgct 240  
 acaaattatg attacctact cagacgtatg cacaccatat accccaaggt ctattcaaca 300  
 gtcaactata actttaactt aaggatacga gactaggaga catatacaag atccctttaa 360  
 aatcagaaaa acaggtgaaa cg 382

<210> 22011  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 22011

ctaagctata agtgacagag tgactctcac ctagaatttt atttaacggt ttaggcactg 60  
 gggagcgata tcaaacaatt tatctgttca gcctctgaaa aaagtggaac gttgtaattc 120  
 atgttgaatt catttctaac tcatttgctc tggattgat tccacaatgt ggtattgttt 180  
 acatataaaa taaactttgg aaaatgtttc gtcaaactca cgtatattca agtttgaaaa 240  
 acttatatac ttatcttgat ggagtctggt ctacattctc gaatctagtg tcttgaatct 300  
 tgatactgat tcatgggata tttgaaactt gtatcctg 338

<210> 22012  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 22012

accacgaac ctaacgaggc cgaatggcgc accgacatcg gaaaaggacc ccaggccgac 60

aagaacctcg accaaatcgg caccctctac ggaccaaga gccacgcaga aagcctccct 120  
 gcgcacctcg ggatcaacaa gcactaccac gctgcctact ccgacgcgcc gcgggcctcc 180  
 acgcactcaa agtaggagac aacggatcga cgcgaccacg gtcagcagcg gggacagagc 240  
 aaccgcaacg acaaagcggg caacgacacc acgcggaacc cggcgaaaga ccacagagga 300  
 cacaagaccg gactaacggc gtacggggcg accg 334

<210> 22013  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 22013

taagcttcta catgatggtt gtgaagagta aatattactt ttatctaatt aaagttcttg 60  
 tcaaccattg cggtggtagt ttgtcttggt gaaactagac ctttgactga ggtcatcgtg 120  
 gttcttaaag agtgagctga ccataggggt gcgttgggtt ttgtaagagt atgtaccaag 180  
 gatggacctt gggttttcat accaaaggag gaccttgggt tttttatgta cctaatagact 240  
 tgtattcctt catatataga agttaaggat tagaaatatt gtctaagggt taccttgctg 300  
 accttgagtt cttgtgagcg aatcttacct aaatagtggg ctactaaagg cagaacttgg 360  
 gtttaacgta tcttgtag 378

<210> 22014  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22014

aaagatagcn nnacgagcca cccgcaccnc ccnnncgccg gganggangg aaagagagng 60  
 aanacacagc cagagtnagt ttgagcctgt gaagcatgga aatcaaggcg aaccgcgat 120  
 ccccgagac ctcgagagca accagcattt tagccagcta ttaacatcgc gagaggacga 180  
 agttgcgaat gcaagaaagc ggaggggacc tctcaaagga cataagcccg tgacatccgc 240  
 gaagaactag gcctaataaa tgccaagccc atgggaccaa caatggagcc aagtgccaaag 300  
 atatcgacag agaacgggga accaggctaa caccagaaa gaaaaaagaa cagaacgtga 360



ataagaacta actcacagta aaaatgaccg gaaaagccca tagaaggatc acagaatacg 420  
 gaatcgaaca caacatgccg tatcaacgga aagcagacat gcccacacag aaagcaatag 480  
 gaatataccc gaaagagaca cattaggaag aaacggacaa ccg 523

<210> 22015  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 22015

ttgcgaaagc ttttctccat cttttttact agtgcctgat gtctctaact agctattcat 60  
 tcgtatcgtg acacatttgt ttggtgatcg taagccggtc ccactcaagt gcattcaact 120  
 acaatcgctt ttctctattg aaaacactca agccttgtag cactctaatt actgatgagt 180  
 actacaagtg agtccatag attctggcca catgtaaagt aacatctcac cacatatgct 240  
 gaatgcgtaa tgcatagaga gactacggat tgccgftaac tcattaaaca aggctaacag 300  
 atgtatttaa gcacaataga cggatgtata atatatatct taagatttca ggtctcattg 360  
 cttactacca ccgataatta accttactga gat 393

<210> 22016  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22016

tttcttgcaa gttttntaga gtatcttacc acactcttta cttctgattc ttgcgatatt 60  
 tgagttgagg aaacaatgct tagtgtccca gtcccactat atgtgtgggt tttatgtttt 120  
 aattcgaact ttgtcttcaa atctttcaaa catttaaaaa attaagaatc aatatctact 180  
 cagatttcta aatttaacaa tcctacttga gagaccattt gtttgtgaca atttggtttt 240  
 tttttttttt aatctttttt tgatcttatt attctgcagt cagttgcaac tttcttcagt 300  
 caagttatgg ctaataatgg tggaaacact gctggcccag gtacataata aacttcaatg 360  
 aa 362

<210> 22017  
 <211> 395

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22017

tccaggatnt gaagagggtca tctttgngct atgtcctgta tctctaaaca ggttggtatga 60  
tgctgcatga cttgtgaaga acgggattct caagcctcat gacttcagat tctttggttg 120  
atatgctgga tggcaactgg atcacctgag agatgagatt gagccagatt attggtatgt 180  
agctgcatgt agctcatgtt tgcttatggg ggctttatca gattcttcat acagcttgag 240  
ggacgagatt ttgcagctaa tgggtgggtca ttactcagaa ttgtgccgga tgccaaggca 300  
tgacatgtag ctactcatgt atggcttcaa attcagagtc aaatgaatga acaacctgta 360  
ttcacggtgc tacaaagtca acctgtctga tggtc 395

<210> 22018  
<211> 565  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22018

atcacgcnnn nccatgcccc cccccacca anngtngaaa antaataaca ttgatgatca 60  
naaccagcgc gatcagactt gatcctgtga tgccttgata accacaggcg aatccgagct 120  
cagnacccgg agatcaccta gagacgacca gcctttatgc aagcttgcat gcacaacgca 180  
cgcgagatg aagtccactc cacaacgctt gaagtacagg agaacttcta ccctataacg 240  
caacatggcg gacaaaagag ggcagcaaac ttgaatggtc gtccatggcc atgcgaaagg 300  
tatacgcgct acctatacat gttcacacat gattgcaact ttgtggttac attgagcata 360  
gaaccaccta ccagcaatat agcaagctgg tggactacaa atcgagacac atactgtaca 420  
agctatacgt ccgcacaaat ggtaggcctt cttcaggcat acgaaacagg ctattcccat 480  
cattctgatg acgacacgga caccttatac cctgaacca actcacaata tagtgcgaaa 540  
atgccccccc ataactaac caggg 565

<210> 22019  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 22019

tacaagaaca ctatctaatac tttcctaaaa aagatatcta tgtctatgct aaaaattcta 60  
tctatgtaaa tcatcattac tgatacacat gtaattcaat cactcatgct tgatttccac 120  
attaacacac taatcagaca caatcaaaaag tctatgatca aataaaatct atcaatcatt 180  
aaccataaat attttcatca accatccaat ccttatgtat ccaaattcac taatatctaa 240  
gaggcctaata tctcttataa aggtaaagaa tgtttctttg gggagatgat tctggaagat 300  
atcatcaacc tgactctttg tatcaacaaa ttctagcatg cattctccct tc 352

<210> 22020

<211> 368

<212> DNA

<213> Glycine max

<400> 22020

agcttgtatt gtcgctcaga tcttgactag ttataacttt ctgaataaaa tgagtatttc 60  
ctatgttttt actccaaaag ttagtgcgaa tcaaatcact cccacatttt atctctagca 120  
tgcattcatt attctttacc tacacctcac gtttggttct ttaggaaata caccataact 180  
aaacgcgccc caaggcatcc ctatcgacc agatccaaat ctataacgat gggatgatcaa 240  
gaggagacac aggaacagat gatagccgac atgtcggtt tgaaagaaca tatggtttcc 300  
atgatggatg ccatgttaag aatgagacaa ctcatggaga aaaatgtggc caccgctgtt 360  
gctgttag 368

<210> 22021

<211> 406

<212> DNA

<213> Glycine max

<400> 22021

tttgtttatt tattaaatca tatattacat gaagttgttg ggtgcaaata agtctttcta 60  
aattacaatt tctattattt tatatactta ataattgact gattatagta aaaaaaacia 120  
taataattga ctcataatca tacctcccta gccggcttgt gtgcaatcaa caaaagctat 180  
ctttcgtttt atagactcta taatctcttt ttgtctttga gagtgactct atataatttc 240  
ataattgcat attaggtatt aatatattta aagaggcttg ctagctagcg tacattcggt 300

tattttataa ttggaatagc ttagtaagtt ttaactaaat attatcttca aatatattca 360  
caatgtagct ggctaataa caccaattga acaacaagtt aatgta 406

<210> 22022  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 22022

agcttgctct atatttacat tgatgtttgt atttatggga ggaggttgta tgccattttt 60  
gttttaagag tagtgtccca ctggtaaaac taactttcca aatttttgcc ttgcgaggaa 120  
atggccccga ggaagcttgc ctcaaagagg tccaggaagg acaaggcagc cgaaggaact 180  
agttccgctc cggagtatga cagtcaccgc tttaggagcg ctgtacacca gcagcgcttc 240  
gaggccatca agggatggtc gtttctccgg gagcgacgcg tccagctcat ggacgacgag 300  
tatactgatt tccaggatga aatatggcgc cggcggtgga catcactggt tactcccatg 360  
gccaaagtttg at 372

<210> 22023  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22023

ntgaaaaaca ctttttattt tatatcactt ggccattctc tttgcttatt caattaggaa 60  
ttcccttcct aatattctag tgatcatctt gatgttgga cttgtaatct tgaagtattg 120  
tcttgaattt taatcttgaa aagcccattt gcatcaattg caacacatca tcatgatcat 180  
catcaaaaaca tcaaagccaa ttgcatctac acatgtgtcc tccaccttcg agattggagc 240  
tatgtttcac gattgcctaa gtgcggaccc tcaaggcaat ccgccattct tccttttttt 300  
atcggaacc catgaatgtt attgcctagc gctattcatg tgccct 346

<210> 22024  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 22024

ctgatccttt gaaccttgaa ccctgaaatc cggcgattc agctcgacc cgggagcctc 60  
acagtcttcc gcagctgccg gctttactat ggcgaaata tagtgtgca ggaacatagg 120  
ctttttgca cttgtacatc gcttattcat gtcattaat cgaaaagaaa agaatatgaa 180  
cttttgaaaa aatatagtag ttagatgatg cgtggtctat attcttcct tctttctaag 240  
agaaaactga tctaattacc acaaccgta tatagaaaag gctttgtcta tatcaagaat 300  
acaataaaga gcttgaaagg tgagtttcta tctatatcgc tgctttttgg cgccatctcc 360  
gatgtgctgt ggatctacct cctttaagga caaaacttt attttaataa acaggtgccg 420  
aac 423

<210> 22025

<211> 408

<212> DNA

<213> Glycine max

<400> 22025

ctatgaaact ccgcttgatg cagatagttg tcgctgcgac ttatgcttct tatacaaaca 60  
aagaacaagc tgatcaccga aattaatccc agtaacagat tgaatagacc gcataactga 120  
ctcaacaagt gtgttctcat tgcaatccaa ctcaaaagag tgtccattct cagcaatatg 180  
aacaagcaac tggccctgat ggactatact tccagtcacg ctggaactca tcttattcac 240  
caatcaatac atgaatcaca acctcttctt ccacccaaaa agggaaccaa tcaaatagca 300  
aacatagagt tcaaaacaaa ccctaaccaa tagctgaaac aaaaacacc accaaagcaa 360  
atccaacacc ctttttttca ccacacaata tattacttca ccccaaaa 408

<210> 22026

<211> 364

<212> DNA

<213> Glycine max

<400> 22026

agcttatcat ctcaagttctt cttatcaagt agatagatca tttttaaggt ccaacgcctt 60  
aaaatgatca cttttcaagt aaaaaagaat tgcttgattc actcttataa aagaactacg 120  
tatgtttgat ttctcttcg atggagggtg cgtaagagca aaagccccgc ttttgtcgac 180

ctcaaataat aaaaaagaaa taaagttaaa ggtaacccaa ttttcacatt tctaaaaaat 240  
 aggttgctgt cttttgagac aaacgtgaga ggtgctaata ccttcctcaa acgtaaatac 300  
 aacttccgaa cttagaattt tcgtttcgac cggtttcctt cggtttttcc gacgttttcc 360  
 acaa 364

<210> 22027  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 22027

tgtaggatta tgggggtccc gtcatatgtg gtactatgtg caagtcgact ctccacatcc 60  
 acaaatccca cgtaaatacca ccattccccag ttgcccacct tcaactgagc tcacgtactc 120  
 ccacgtagcc catatgctta ttctctcaa caccgggtcc ccattcaatcc ctccaagctt 180  
 ccacatacat tcaagaaatt caacatccaa catcatgaac tatcaaaaac caagaaaaca 240  
 gggcagagggc agaaaactct gcccaaaaaca caaaccaata ccacaacctt ccttactcaa 300  
 ataccccaat aacattctct tcgttccaat ctaatcacgg ttggatcgac tcaaaaaatt 360  
 tactggaggt ccctaatacat aaatctacat tttgaccatt gtgatct 407

<210> 22028  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22028

ggtaatctga cctgattgcn acctagaacn ctgngaccca ataattntntn ncnncctcg 60  
 aggggacggc tctactgccg aagtttgaac gttaaccccg ggaacttgcc tttgtcgagc 120  
 ccaaatactc atttgttggg ctgaggtaca tgtcatatct gcttagctct ttgaagactt 180  
 attcattgac tgtcgcgtgt tgaggtatgc cctgaaacat gaagaccatg ttattaaaat 240  
 agaccacaat gtctcgcccc cttgacactt gcaatacagg tacaccaaaa catggtctgt 300  
 cccaccgccc tccttatggc gcacgcatga acctccccat aatgtagcct ccccccggtg 360  
 atcgttttcc tcctatttc caccgggcgc cggaacaaac gtcaagatac tccactaaca 420  
 ccccgacgcc ggatcccctg acaacc 446

<210> 22029  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22029  
  
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 gctgcgaaaa aacagagagg acatttagta gcgaattttg acgataaggc gcgaacggga 120  
 tggaaaaaac cacaaaagtc aagccatagg gaagggcaag ccaaacgaaa gagaaagcaa 180  
 acaacttgaa gaaacgggaa cagaaaagaa agcaactgtg accaggaaga caaacggaag 240  
 ataggacaag aaaaagacag aggcctaata acggagagaa aacaccacgg aaaggaggag 300  
 aaaacagaca gggaaccaga gaagtgcaca acaacaagg ggaccacaac aaggaaggaa 360  
 aacaaacaca tggaaccaa tcg 383

<210> 22030  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22030  
  
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 gcttgacggg cgactcctac atgtataaat aatcaccacc caatgccttc tcacagagcg 120  
 ccggtcgaca ttatcccatg cgctgcagg agacggggct catcacttcg ttgagattcc 180  
 gaagcttgaa acaaccggtt ccaccagtgg aacgtcgctc caaccctgac aatcatgtct 240  
 aagcattgac tctctctcgc ccaatcatac acatatgcac acgtcattca taggctgtga 300  
 ctaacaccat atagattgat ctaccagtcg cactgtatat catttcattg cgaaacgtct 360  
 taaaaagtac atacttctgg tgaggtgcac aaccaatata tgtacgcgac agtcatcgct 420  
 gtgacacgac gtgatgacc 439

<210> 22031  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22031

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 aaaaattatt aacaacaaaa actattgccc gcattagaag tgaactatat tttattttct 180  
 accttcatgc acttttttca atctaagcaa ggattaaaaa aagggtttga caccatgatt 240  
 tcggccacaa tatcaagggt tctggagtgt ccctaacaag agtggccaac gcattgggtca 300  
 cacttgctctg caattttcta catatcacta ttacataatg tcctagtttc aatatattag 360  
 agttaacat gtttactaaa tatt 384

<210> 22032  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 22032

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 aagggtagag agaggaagac tacagatttg gatcacgtaa agtgtgttaa ggatgaagaa 120  
 ggcaaagtct taatgcatga aaaagatatc aaggaaaggt ggaaggtgta tttccacaac 180  
 ttattttaatg atggatatgg atatgactct agcagtctag acacaagaga agaggaccgg 240  
 aactataagt attatcgctg gattcagaaa caggaagtaa aggaagcggt gaaaagaatg 300  
 agtaacggta atgcggtggg gccagactac atacctattg aagtgtggaa aactcttgga 360  
 gatataagtc ttgagtggct caccaaactc tttaatgaaa ttatgatgtc aaaacgcatg 420  
 c 421

<210> 22033  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 22033

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 atccccatca cctattcatt atttaatttc catgctatit tttcccaatg caggtgacac 180  
 tatcattgtg aaggaaagac aagtagatca tggaaaagga attaagacag gaatatgtac 240



tctggaattt cctcagctgt tgttggtgca acaatagcag cactgatgtt tttgctaaat 300  
 ttcacatgct ttttcttccc aaggtaactt cttggtgaca aaacattgag aaaaggacta 360  
 gctgcatgag aaatgataag t 381

<210> 22034  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 22034

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 acatcaatgg taatcgatta caacttttaa attcaaattt caaaaccctt cttaaagctg 180  
 attttcaaaa ttgtcttctg gtaatcgatt acactgccta gtaatcaatt accagagcct 240  
 tggatgttgg aaacaaagtg ttttgaggaa aaagcttgat cgaccaatga gattgtttga 300  
 ggccttatct ttttcttgat cttgaattaa tcttgaagca atgcttaacc tcaaaatgtt 360  
 tgttgaagca accttgtttg attctacttt ggcacatca aaaccctata ttcataca 418

<210> 22035  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 22035

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 ttgtcatcac ctttgtcatc atcttctggt atcatcaaaa catctttgaa tcaactcttga 180  
 ttcaccatga agcttttgctt ctacaatggt gacacaaaca gataaagtca aacataaacc 240  
 aaaacacaac aatactttta caaaaacaac agcctgaatc ataaaatctt taatcactct 300  
 atgaaattgg aaacccttgt aaccaactgg caatcctact ttcttgccaa taaaatcaaa 360  
 tcattacagg tatt 374

<210> 22036  
 <211> 409

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22036

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 ctttgtcgac cccaaaagtt ctttttttcg gttgaggcac atgtcgtatt tgcaaagctc 120  
 tttgaagact tcttctaggt ctgccacgtg ttgagttatg ctctgaaact tgatgaccat 180  
 gtcacgcaca tagacctcaa tgttttgtcc aatctactac ttgaaaatct ggtccatcaa 240  
 tctatggtat gtagcacctg ctttttttag ggcaaagggc atgaccctat agcagaagtt 300  
 ggcatcctca gtgatgaatg tcattttctc ctcatTTgga gcgtgcatcc ggagtagatg 360  
 tctaggaagc ttagtacttc gaacctggac gtcgatcaa atagcttat 409

<210> 22037  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22037

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 cttangcact tctctctctt tcgaatttgc ttagaaaaat tgtttccgtg aagaaaattc 120  
 aagccgaggg gcttccgtaa cgtttccgta acgtttccgt gagtgatttc gcgaaggttt 180  
 tcgaccgttc ttcaacgttc ttcatcgtt ctccatcgtt ctccggtctt caacgggtaa 240  
 gtacctcgaa ccaagctttt cgattcattc tatgtaccgg tgggtgtcca cattgtgttt 300  
 cgtgcattat tcttctcgtt atcatttact ttccgtaccc cttttgacgt gcttaagcca 360  
 ttttatttaa gt 372

<210> 22038  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <400> 22038

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tgaatgaaga tcaacagaac ttgaagaaaa tggctaacat aataatgaag attaacaaaa 180  
aagcagagga aatgttcaac actgtttata ttatggatta ggtagaaat ttcaggactg 240  
ttctaaaata aacatgacat gatataacac atttacttat attattttgc ttgttaaata 300  
tagccttatg gtgaactcag taggtcattt gcttatatta caaccaagat ttggtgagcc 360  
cagctttact agttggatgg atagaactca aagattttcta tgggatcacc ggaaa 415

<210> 22039  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 22039

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gaagcccaaa tgcaggtacg cggaaaccaa gtttgtccct tcgctatcca agcgactccg 120  
accactagc cgataatcaa ccaaagtccg tcgcagccaa cagacatgcg tggaggccca 180  
gccacgaaat aacgcgaagg gcgggatcat acccacaagc ctctatccgc cgccatcgac 240  
tgaacatatc agaaggcccc aataccgaca acaacgaggc tggactcctc atacatcaac 300  
caataacaga agcctatcct ccctaaggac caagagggcg gaaagaaacc cc 352

<210> 22040  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 22040

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accacattgg ccctagtttt ggtagattcc accccaaaat tttaatcact aaaaacaaat 120  
tgcattgagtt gaagtctaac tatccgaagc caatgatgtc gtgtacctta tggcgtcggg 180  
agcgatacac aacttttggc cataagtctt gactattggt cgttcaagca ttacacgtgc 240  
cgttacgata aaaaaataaa tagcaatgat gtcaataact ctatctaaac tagattccag 300  
ttgtgacaaa accaagattt cagtttaatg gagaaaaata gttattgtat gaaaatatga 360  
atctcgatat ggctcaacaa atatatcata cgttgttatt tgaatcaatg aa 412

<210> 22041  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 22041

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 attaatttga gactcccaa atggtcaaag aagtgaccat gttaaggaat gtacttgggt 180  
 atgtaattgg gttaatagct caaaaagtga aatccccttg agtaaagtgt caacatggca 240  
 tatcatgata cttagatatg tgcactcaca tttatgacta gagaataatg tgttacttga 300  
 tgagtttgtg ttagtacatt gatattgaaa gtgtgaattt tatatatata tatatacata 360  
 tatatatata t 371

<210> 22042  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 22042

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 ggacccatgg acactaatcc ctgacccaac aaaaattcgt gcaaagggtg gcccaaatcc 120  
 accaggggta tggatggaat aaaatggctt ggaacatctg agcaccgcca aaaatgtggt 180  
 tgatgtggag caaaatgggt ataaggcgtt gatgccaca gcgatttgag cgcgggagtt 240  
 gttcatttaa ttgatttatg tatgctacac gagtgacttg tattggttta agctgtcttg 300  
 aatgtatata ctttgtgggc ttcaatgaaa tcgctagtta gaaatattac ttattttggt 360  
 ttgtgcagtt tagttattct cttaacatt acttattttg gaatgtact 409

<210> 22043  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 22043

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ttgagcttgt gttctttatg caccttagct actgcttgc cccatgagtc tgctgtgtga 180  
 accgctccct tatcactcac cttctcatta ttttagttac aatcacacca acagatcata 240  
 tatcatgcaa caaataccac ttccagacta agataaaaga actaatagag agatcttcta 300  
 tgatgccata 310

<210> 22044  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 22044

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 caaaaaaaaa aactataaat gatatgaaag acatcaaaga aaagtcgcaa cagaaagctg 120  
 agagtgtctga aaagtagaag aacgcaaadc aacttgtctc tgatgattga taaaatgcct 180  
 tacaatttgt tgatacataa gtttaaatta aaagataatt cccatttagg ccttgaaaca 240  
 aagataccaa acctgcacga ttttttaca ccaaagaaca tatgaacaag cgtctcagca 300  
 ccatttttga catgctctac attaaattat taaaaaatg acattaaaat ttttaataata 360  
 aacaatatta aaattatatt aaaaaaatat aaataatact cattaaatta aaa 413

<210> 22045  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<400> 22045

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 agccatacaa tgccttaagc aattagaaca ctctatcttc cttgccttag atctccaaac 120  
 tacgagggttg ttcaacaaac cacctcgtt gccaaaggtac cacttcaggt aaagctgaca 180  
 ttacattaa tctgggtata aagaccaatc tctattatgg gcttgcgcaa ttaccaacct 240  
 tatgggttca agcctagcta ctggaccata acttcagaat gatccaaacc agatttttgg 300  
 aggacatcct ttgcaactaa ccttgc 327

<210> 22046  
 <211> 406

<212> DNA  
 <213> Glycine max  
 <400> 22046

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 atgatocttt gctaccctgc aatgagacac acacagatac acaatcacac acacatagag 120  
 acaaactcac gcagacacaa acacaatcac acattcacac ataatgatac acacacacac 180  
 actcacatac agagtctcgc acacataaag acacagacta agacgcaaac aactgtgcc 240  
 acaaacacac agagagaccc acacacaaag acacacacac tgagtcatat acacacacat 300  
 acacaaacac actcacacac atggacagac acacacacac ttattgagac aaacactcac 360  
 acactacata gatatagaga caacttctta cactcacacc cacaca 406

<210> 22047  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22047

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 ttaagtcatt tcactacgga ttattctgac ttctgggcat ctaattgtaa gaatggagtc 180  
 atggagaaaa tgctatcaac gtgttggtgt atgggttaat ctttgacggg agcattcatg 240  
 tgtttaacct attgagtatc ttatctcctt atttagcaga tcaaaattga gactttaaaa 300  
 cttttatgtg tgggatgctt ttagttaata attactttgg acattcgaat atgttgccgt 360  
 g 361

<210> 22048  
 <211> 312  
 <212> DNA  
 <213> Glycine max  
 <400> 22048

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caacctttgt gggagcacga aagatttget tccatcctgt gaactgttct ttgctccttg 180  
 tgactgtgct cctttatggg gttatgtatc cgctcattga tcggcttaaa ggaaactggt 240  
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 caattgctct aa 312

<210> 22049  
 <211> 777  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22049

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 caacnanagt atannaanaa ngaataactt atcacgagag tangcgggca cgatttcgtn 120  
 tcacagnata tttctncgcy ctcttactcg cagggcgnga tatcacacag tgtatagcat 180  
 agatcgacct atcttactcg acattaatat acgtacagat aaaaatgtat ccggaggtgc 240  
 ntaccgcggt cagatcgctg atcttacgta acacgctggg gaaaatgcac ctgactatac 300  
 ggtanctgat cgcaagtgtt gacacaggcg aacagcaacg ttacaaaata ccangagtca 360  
 tcgtctcgag gtatacatgg agcgacgtac gtacngtcga ggactacgga accgcatagg 420  
 agttctaccg tacacgcaca cagtgtgcgg atccaggtct catcgacgaa gtagatcgtg 480  
 tcgactacga gagagtggac acggtctcgc gcgagatata caacgtggag gtacaagtna 540  
 cagatgagag cagatagaga taatgacgat atagagaaag ngatagcgcg atgatgagtc 600  
 gcggtatgac gagatcgnta ggtatcgctg ctacatatc aacncgntat atgcgagtac 660  
 gcatgtcgat gatcgntant atggacgaga tactgtgctc atngttcant atacgatatc 720  
 ctatactatg tatgnangta tactatgaga ctgagcgtea tgcactatgt cgcgcg 777

<210> 22050  
 <211> 693  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22050

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 atttttgcat ggctctacag ccctaataagg gatgggagcg ctatctgtac acacactctc 180  
 tatgtttcat tatagatctc ttactcgctt aggaaatcat cgacacgagg gtgcgtataa 240  
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 tcacatcgca tctcacgaat anacatacat ctctcgagcg gaggcgctta gaactataca 360  
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 gactgcacgc tcccggacta ctcaataagt gatatatcgg tttgtgagag tggtaacta 480  
 ctgngctggc ctcaactccat agttaccctg cgtgtctcca ttagctctat atactgtcac 540  
 gactcataca ccaataaacg tggacaataa catacataag gacgacgcgc accgaaccat 600  
 gtgttctgaa cagaacaata cgatcgacac aaccgcagtc agagcgtacg acacctaata 660  
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<210> 22051  
 <211> 960  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22051

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 actacatgat ctcttatcat tataattata tcacgtgaca cataattaac agttgtgcag 180  
 tgaagatagc atgttgcagc gattagtgtg tctgagactc ctctggagcg taatgcgata 240  
 gggatangaa gaactgtggt cacctactct acatgcgcag tcacacttgg ntatagatat 300  
 tgtgtgtata catgatgtgc gtaggacatg agcagctcga tcattataac gtatatcgat 360  
 gacgaccng cagcgtgat antgacgagc gcatgacgga tacactgtcg tgcacatcga 420  
 gngcctntga tacgtgcata ttncacgca atcaagtcga ctgctggtat gncanactca 480  
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 agttcgcgta attacgacgc tgactcgtac tcagtttgta cgatgcgtnt ganctactta 600  
 canatnacga gcagtattct gaactantgc agctantgac tgacngtaat caatcgataa 660  
 tcgancgagt tctaataagt nnggtaccng acgtctgcta gtcgacngtc ggtcaggctg 720



atcgctgaaa gtacgcagta cntantcgaa tatacgatga ggccatggcg aacaccatng 780  
 ntcgaganta agtcccccggt cgtagtactg atcgctctgac aatctgacca tcaactgcgac 840  
 tgcgagtgca attgttcatt gtgggtcgta ggcgtgancg agtagcatgt cgacgacgac 900  
 cctgacngca gcactagntc gtntattacg cagcnatcac taaccaccag tcgctccacg 960

<210> 22052  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 22052

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 tcgacaagag acatgagcag catctcttct tcttcataaa tctcagcata gtttgcactc 180  
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 actgtggcctt tgtttggaaga ctgccttccct ctgcctctgc ctcgaccccg accaaagcct 300  
 ctacctctgc ctctacctcc attctgttct tcatgtgaga ctttcaatgc ttgtcatcc 360  
 cttgtgtcac taccatgaga a 381

<210> 22053  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 22053

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 aattaaata cacacacaca aaaacaacaa cattttcata taaaaaattg gcgccgattt 180  
 gtgttccact aggacattct aaggcggttt caagaaactg tcttagaatg tgtgtcataa 240  
 aaaaataatt attcttaatt acagaactgc caccgcataa cattctaagg cggttatgta 300  
 taatcgtctt agaatgcgcg tcgtaaaaaa atgatttttt agtagcgggg tttgcaagtt 360  
 ttgtatcggg tatgttcttt gtgcttcttt gttttcagtt gatgatgtgg gatataaagt 420  
 ctct 424

<210> 22054  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22054  
  
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 taattatgac cttttaagca ataaatacaa tccaagttgg aggaatcatc taaatctgag 120  
 atggacaagt cctccacaac aacaacaacc tatccctcct tttcagaatg ctgctggtcc 180  
 aagcaagcca tatgttcctc ctccaatata gcagcagcaa caatagcagc cacaataaag 240  
 acaacaagca gctgaggctc ctctcaacc ttccttagaa gagttagtga ggcaaatgac 300  
 catccagaat atgcaatttc agcaagacac aagagcctcc attcagagtc tgacaaatta 360  
 gatggngcag atggctactc agttg 385

<210> 22055  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22055  
  
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 tctgggggggt tttgttgat aacatatttc gttggctatg tttcatgatg tattttgggc 120  
 cataacttgat gtacattgta tactgggttaa atgttgga tgctgaatga tatgctatct 180  
 ctcaaagct acagttcaaa aaaaaattag ttgaatcaat tcgaaaaaaa aagaaaaaga 240  
 aaagaaataa agttgagtga ataagatctt aaatggaaaa agaagatga gactcttggc 300  
 tntactctnt gcgtttaaat tttatcttta ggttttctta ttttttctta atatgcactt 360  
 attccccatt actcctctat tcctttggga tttagctatt tattccatat ttttcc 416

<210> 22056  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22056

tttatgcaag cttctgcgta gaattgaatt ggaaggagag gggagaatgt ggaattggaa 60  
 cttacatggg acgaaggcga ttatgagaga gacgacgact gcgtcggcaa tagagaagat 120  
 cacgggctaa ggggtgcttg ggggttttca gcaaggatgat tctccctctt gatctcggag 180  
 gaggtgctga ctgcgtcacc gattcacagg gcatcggttc tctgcttata agttgtctgc 240  
 ctccgggttc cattatgtcg tccacgaaca cgatcaattc acattctcac ttggattgct 300  
 tgggttaaac atcaatctcc tctgtcactt tcacattaat tattgttctg ggctcgatcc 360  
 cctgtgccac ctgaatt 377

<210> 22057  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 22057  
 tcttgaaatg aacaaggat gagtattagt tgatattatg cctgaataga atattaattc 60  
 atttaaggaa gatcccaaaa cttgcattac ttctacctaa aagtaataat gggttcccgc 120  
 caaacacact acataagctg aaatagcact tttatgatcc tagcaatata tatggaggta 180  
 gacaaaccat atatgtccca actagagtga tgccttcaat ttaccccagt ttaattttaa 240  
 cttttaagtg ccatacaatg tttccttggtg tgccctgttg agtctaagaa taaaatttgc 300  
 attgattaca tctttaaagg tctgtgtact gattcttctt ctcaacccat gttttttatg 360  
 caatatggca tggaattatt tttgaattgc tgttttctcaa ttgttttat 409

<210> 22058  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 22058  
 agcttataat aagaaagtga agtcaaaaac ttttaatggt ggagatttag tttggaagg 60  
 tatcctgccc atagatagta aggatcgagc cttgggcaaa tgggtcccaa attgggaagg 120  
 accgtataaa ataattcaga tctattcgaa tgggtgcttat gagtttagagg agctaacccc 180  
 tcagaaacgt actttgagca taaatggtaa gtatttgaaa aaatataaac caacactgct 240  
 cgaagttaaa ataagcatag aataagagaa atacgggaaa cataaaaatg gcgataacag 300

taaattgccg cgaaggga tgtgtcaata ttacatcgaa aagtagaatc gaaatacaga 360  
attcgaaata aag 373

<210> 22059  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 22059

tcttatccaa ggctcatctt ggtggtgaag ctcccttcttc catggcttat tccctagtgg 60  
gtggcgccctc ctctcacctc ttctcatttg tcttccgctg catctccatg gtggaaaatc 120  
accattaaag gacctcattg aagctcaaag atccagcctc catagaatcc ccacaagcaa 180  
gcttccatca aaactatcat ataaatttta gtcattgatg tcaccaagaa ttaaaggatt 240  
ggttgggatg tcaagcggtt caatcatgta ctgggttcaca tacgtaaagt cagaatccac 300  
aaaactgcaa gaacaacaaa gtgagcaatg aacatgggtt gaaatcaaat ttgacaaaa 360  
gtatcagagg tacaacatta ataatggcag aactgggtact ggtttgc 407

<210> 22060  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 22060

gcaagcttac tatacataac aattaagatt tattatcaaa taatagtgtg aaaataattt 60  
atactatcta tatatgtata aactatttgc tcttaaaatt taaaacaaaa gaaggaagat 120  
taaactcttg tgagagcaca ggaaataaaa gtatataact gaggtaaaga ttaacaataa 180  
atgctaagta cacatttgat ctttaacaca ctttttttaa tatctactgg attttttgtt 240  
attaaaagtt agtaattttt tttaaaacat tgtgaatttc acatcatatt taactaatc 300  
ttcttgattt tataattttg aacgaatttt aataaatgag agtatgtgtc aaataattaa 360  
tcaattaaac 370

<210> 22061  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 22061

ctcagctatg ctttccagta ggatatttct gattagcctg cctgtcgga tgtgacttca 60

tttgtatgac gatttctggg ctatgaagct tgttggttaa aaattgcggg ccatgaagtg 120

aagttcattt gtcctatttt tgtgaccatg gaagttttaa gcataactat gactcaaata 180

tcattttctt catctgtgaa tctctatcct ttttttcccc ttttctcatg ggagggttagc 240

tctgcttctg aattgcgtgc tttgagtatg gcatctgtgc tactaaagtg aaaggggatt 300

tcatggattt tgtcatacta tctttgtact ttgggtgtgt atatttcttc acggcaagaa 360

gataatattg ctgagtacta tcagcagcag gtg 393

<210> 22062

<211> 360

<212> DNA

<213> Glycine max

<400> 22062

caatctagga tatgagaagc gtagctgaca ctcaatctct ggaacgttat aaccagaata 60

tagaaaccat atctctgtac gtagaccaga taatcccaac aaaagaaccg agatcaagat 120

caataaagca tataagaatg aaaaaagtac cgaagcctcc aaaagtatag ggcaaacaaa 180

ataaacaagt tcttattcgt ggataatcta acacaagcca tgggcgtcga taaagaggac 240

actaaaactg tcggcgcagg aaaccatacc gataccaaat accgatgcgc taagctccag 300

aatgtagcca ttaaacaagc atttaggagt aatgagatca aggggaaata aaagataacc 360

<210> 22063

<211> 396

<212> DNA

<213> Glycine max

<400> 22063

tgagatgttc acatatccct tcatgatct ttgcctcgga gatgattttt ccttggtttg 60

ggttgtttat tctacatctg cttttctcac ggaaaccttt tgggaagttt atattcttta 120

acttggttgt tgaaatttat taggacctac caaattttga gtaccacccc atgtttatta 180

atagtgttta ggaattggtt ttagaaggga agggagagta aaattttcat ttcaaataaa 240

tatgttctaa attgattttt ctataataaa agtaataaaa tgacaaattg acaaaaatta 300

atgtcttaac cttttatttc tataaattgg aattctctta atgtaaaaat taaaattggt 360  
 ttttgtttaa aaaaacatga atttcacact ttaaca 396

<210> 22064  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22064

agcttggtct tgattntttc aaagtctttt aacaacctta gaacaatata ctgctccttc 60  
 atttaattat ctttgggctt gtcgaccacg atcaacaaag tactttcgac agctactata 120  
 tgttgatttc accaacgctg ttatcggtat gctgcgacaa tccttcaata ccttatttac 180  
 acattcggac aagttgggtg tcatgtggtc atatctacgt ccttctttat cataagtcac 240  
 agtccatttt tcctttgaaa tgcgatcaat ccatgttgct actggactca atggacgaaa 300  
 tttttctaaa ttttcatcaa atatatgctt gcaaggagtg gagcctgcat aaaa 354

<210> 22065  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 22065

ctaagcttat acaaccaata ttctttgtcc taccatgoga ctgttgactc taacacaaat 60  
 caacacttag tcttttctta aaatgaatac tacggataac attaaataat gatttttagat 120  
 tttcaaggat tacaaatatt tataggactt aaaattaaac ttacttcatt ttacaagggc 180  
 tataaatagt gattttcaaaa tttaaattga tgaaaaataa ataaatattt tttaaaggac 240  
 caaaataaaa aaaactcaaa agtcactcat ttataataa ctaaatacat atttaatcca 300  
 ataatttata ctaatattca cattacacat gtatgaataa tttcaatggt tgtaatggaa 360  
 aaacaatctt aaccgcatgc aggaaccaag ctcttttatt tcttattttt tatac 415

<210> 22066  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 22066

cggagaagta actttgtgat cagtatcatc tctccattat gttatgaacc atatgtggaa 60  
ccggaacagg actaggtgat ctatctctct tcctagcaga cctcaagttg ttctttaacg 120  
gaataggggg aagtgaactt agccttctta ccgtgctaca agcttgacca ttttctccat 180  
tttggtgttg atcatttcta ctcaacaaca ggtcctcatc gaattcaaaa tcaattgcat 240  
tgaaatcaga cccaacgtg agaagtttgt ttttattagc caggacttga tactcaagag 300

<210> 22067

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22067

cgattnagtg aacttgactg ngcatgaaaa cttgcatncc gtgaacttag atagtcagcg 60  
tggacgcccc ttcttaggag cgttgtcgat tccaggcgcc atgatgggtat ttgaaccctg 120  
ataaccctcg aagactagga aaatgggtcaa aggggtgcacc ctcggatcga attatcccg 180  
gagccgagct taagaccata cgagcctgta taacagcttg gaaacaggtt actggggagc 240  
agatgagagt acaaccccag gggggcccaa ttatagatga aaaggattca cggaccatga 300  
tcagagtaag acttcatctt catgttcacg gagttctatg ctccatttaa ctggctcttc 360  
ttagagcgct ctaaagttat tcaaactctc tcg 393

<210> 22068

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22068

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acatacattt tttcttttaa aaaaatttag atgcaggtat gcattgtgtt aaataaaaatt 120  
gatatttaaa tgtaaagaaa tataaaattt atccacttgt gaccaactta agtatgggtg 180  
ttcgcgggtc gggtctggct gggttttagtc aaattcgga tccaacccaa tcaaatttag 240  
tcggtttggg ttggttttca taattttttt taaacccaac ccaacctaac ccattcatga 300

atggttttggc tcgatttata ccaatggatt acccatttaa atttgatctt tttcttaana 360  
ctactattgt atatcatgat tct 383

<210> 22069  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 22069

tgccaaaatt tcaaactctaa tacatttaac ttgcgattta atcaagtctt tgcttggtat 60  
tggtagcaac attgtgataa gcaatattct tggagtaata ttatgcttct attcttacca 120  
tagttgttta ctttcaaaac cagattgagt tatatgaatg agggctctta tcacatgtct 180  
aaggattttc tagcaaagtc ataattatat taagtagtgt atgaataaaa cccttatgag 240  
cataattgga atatatatat atatatatat atatatatat atatttctaa ctctccgaga 300  
ggaaggtttc tttcatcatg ttctgaacct tgatatcaag tgaatatatt ttgcgatagt 360  
ctgttgacct tttcttcatt gtctaattat ttaaacaatc tatgtgttcg ttcaatcaat 420  
tcaaa 425

<210> 22070  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 22070

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atgctcacct cccctctaa aatttaattg tattgggctt ctccaattc aattaaattt 120  
agttcccaac acccacatca aatattcact taattcatgt gaaattacaa aactaccct 180  
aatacaaaaa ctagtctagg tgccctaaaa tacaatggct gaaaaatcgg gctcatactt 240  
agcccatggg cccaaaatct accctaaggc tcatgagaac cctagggcct tctcttgcac 300  
ctttggccca atcttcttgg agtcttctat ccaatgccct taggggtagg attgcatcat 360  
tccctcccc ttgaaa 376

<210> 22071  
<211> 399  
<212> DNA



<213> Glycine max

<400> 22071

agcttccatc aagaagtgtg gtgagtaggt gcataaaaaa tgagatgac ttcttgtatg 60  
gattgctaag gaagattatc accgatgatg ccaccaatct gaacaacagg atgatgaaag 120  
aaatgtgtga ggatttcaag acccaacacc acagttctat gccttacagg cccaagatga 180  
atggggcagt tgaggctgct aataagaata tcaagaagat agttcataag atgtctatgt 240  
catacaagga ccggcacgag atgctaacct ttgagtcgca tggttatcga acttcagtgt 300  
gctcattgac tggggcaacc cttttctctt tagtgtacgg gatggaggct atgctcctgt 360  
ttgaggtaga ggatccttct ttgagaatgc tagccgaat 399

<210> 22072

<211> 383

<212> DNA

<213> Glycine max

<400> 22072

agcttccaaa agtatcaagt taacccttag cacatctttg tagtgggttc ttctcacatg 60  
ttcctatgtc gaagagttgt tcttcaaaag aactcccaca agaacaaaca agacgttctc 120  
cacggtggaa gatccttact ttcataataa ccttaaagaa cttttattgt agatccaaat 180  
tgatgaagat gaaaaaata atatattata gcaactcaaa atcaagaggc accatctcaa 240  
agcatctaaa tcaaagaaaa actcaaaaaa tacaatagat tgtgcatact accaactttt 300  
atgattgaaa aaaattacca gatcagcgaa cgaggagaag aaaatcagca aaagagactt 360  
catttaacta aatagtcaat taa 383

<210> 22073

<211> 429

<212> DNA

<213> Glycine max

<400> 22073

taagcttgtc gctgttgatg aagattgtcg caccaccgca cataggtttg tgacttgtcg 60  
gctgccgtcg cacttggggc ccatttcttg gtgagttttc ttaccctgac gtgggtgtgca 120  
taaagcaact aaaggctctt tgtagggatt caatcaatca acctaatttt attctaacag 180

acaatcatca atcctaacca catgttttct atccatgtag agaaaaatta ttgcataaag 240  
 atgaataaaa ccctattgtg tttccatact caaaatcatg catacctgga ttagccataa 300  
 tggaattatg aaaggttgat gaggatcaag attgggtttta tgatcttcta aatgtagaga 360  
 gtcctttttt ttctcttaat ctttcttttc tgataggcat aaaaagaaaa caagagcgaa 420  
 attgtacgt 429

<210> 22074  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 22074

agctttatga tgatgaatca agttgattca agtagttttg atgatgacaa agatgatgac 60  
 aaaaagccca agagaatgat ttcaagattg agtcaactag tttcaagaat caagagaagt 120  
 ttgatttcaa gattcaagag aagatgaatt caagattcaa gagaagaaat caagaagact 180  
 tcactaggga agtattgaaa agatttttca aaaaacaaac atagcacagt tttgtttttc 240  
 aaaagagttt ttctcaaaat tttctaagtt accagagttt ttactctttg gtaatcgatt 300  
 actagtttcc tgtaattgat taccaatggc aaagtttgat ttcaaaagtt ttcaactgaa 360  
 tttgtaacgt ttcaattgat ttca 384

<210> 22075  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 22075

ctaagcttgt tcattcttgag ataatagggtg gtcactctca tttgtagatg atgggtgttac 60  
 atactttctt ggccctaacag gaactccaat attttttacag cttctaattgt tatgattgggt 120  
 ttggccacac cttccacatg taaactcagc caattttctc tttagcttgt cctgtgacat 180  
 tgtcctcatc tacagatcta cttctatttt tctttggcct tcctcttttg acctttttat 240  
 gtggtggaac aggggtgtgta tactgtgtct gggcccaata ttgtggctct tggactgggt 300  
 caataaaatg ctggcatgtc ttattataag cttctattga cagccactca tgacacatgt 360  
 tctcaggctt cctccttttg agagttattg ttgcaatggc atgtccgcat gacatcccta 420

<210> 22076  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 22076

agctttccaa agttttctgg ttttccaaac cttgaaaact gtgctattca tcttttcatt 60  
 tccttctcca tttgccaaaa agaattcgcc aaggactaac cgcctgaatt ctttttgtgt 120  
 ctctcttctc ccttttccaa aagagcaaag gactaaccgc ctgaattctt ttgtttctcc 180  
 cttctcccta gtcaaaaatt caataagaca cactctgaga attcttttga ttcttctctt 240  
 tctcatatac aaaagatttc aaaggactaa ccgcttgaga attcttttgt atcctcattc 300  
 acaaagattc aaaggggttaa ccgcttgaga actctgtctt aacacattgg aggatg 356

<210> 22077  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 22077

tcacgaccaa tcggttttcg attccttcac catctgttcc cctggcggtg ttaactacaa 60  
 cgagttcccc accattacca gcatttccca agttttcggt caaatgccta gctgttgaag 120  
 aattgacaaa ccgtagggac agaggcatgt gttaccactg caacgagaaa tgggtcactg 180  
 gccaccaatg taagccccga ttacacttgt ttatcgcata tgacaagtca gagctatcat 240  
 tgtctccctc agcaacagac tctcgatca acttgccgga acctttggtc gttgactccc 300  
 ctcacccgag cctcaacgta atgtcgggca tgcttcccca actacttttt gcatttatgg 360  
 gattctaagt catcaccaag ctacaatact ggtggatggt gggag 405

<210> 22078  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 22078

tttatgcaag cttttatgat tatggagtac ccatcacata tggtagtagg gggcggacgg 60

gcgatggtgc acaacaagtt ttccacatcc acaatgcgcg tatagaccca ccatcccctg 120  
 ttgcccacct ccattctgagc ttacgtactc ccacgtagcc catatcctcg tttatctcaa 180  
 caccgggtcc ccattcaatcc tgccaaactt ccacaacatc caagcaaac aacatttcaa 240  
 cagcacaagc tatcacagcc aagcaaaaaca gggcaaaggc agaaaactct gctcaacaca 300  
 ccaac 305

<210> 22079  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22079

tttgtagggtg aaattagggtg ctttcatttc ccttattgtc ctctcacggn gtggagggtg 60  
 tgccatgttc tcagaatgtg caaaatcaaa tgctcaaat tataatgttc caaatcagga 120  
 tgttcaaat caccaataac agaatgcaca gattcaccag taatggaatg ctcaggatga 180  
 tcaaaaggta taaaatgatg cctaactaat ctatgaaatg tcctatctat ctcagggtca 240  
 aaggggttgta agtcaatgga ttgcctctag tcatacatta cattcagcat gcacaactag 300  
 ttgccttgctc atgtaaataa aggtgtaggt ttgaactaca tctaccctca aatgatatcc 360  
 aaatgtcttg aaattttgtg agctacctta taaaatgatg agaagatagc aca 413

<210> 22080  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22080

agcttaacaa aatgcatgcg aagtgggtgg aattcctaga gcaattccct tatgttatca 60  
 aacataaaaa gggaaaagggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
 tttctatgct tgaaacaaaa ttgattggctc ttaaattgtt gaaaagcatg tatgaaaatg 180  
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240  
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300  
 atttgcttgt ttgtgaagca catgaaggag gtttaatggn gcattttggg gtccaaaaga 360

<210> 22081  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 22081

actaagcttg cgattggtct cgcgtgaaga tcaagttttc ttttagaggc caatttaatc 60  
 atcctgctta gacgaatgaa aaaactgggg caaataaaaa aggtgaggat gagggaaaaa 120  
 cccatgatgt gactgccatt cctatacggg caagtttccc accaaacca acaatgtcat 180  
 tactcagtca ataacaaacc accttcttac ccaccacca gttatccaca aaggccatcc 240  
 ctaaatacaac cacaaagcct gtctaccgca cttccaatga cgaagaccac ctttagcaca 300  
 aacaaaaaaa aacaccaacc aagaaatgaa ttttgcagcg aaaagcctgt aggattcacc 360  
 ccaaattccg gtgtcatatg ctaacttgct cccatatcta cttgat 406

<210> 22082  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 22082

aagctttctca agcattccac tcattaacaa acaagagacg atggcctaca aatgtatcat 60  
 atatagcctc attagttatt catctgtagt gtcaaattat aaagatttca tgtctaagaa 120  
 gtcctttcta cttcaatcaa ttcttagact ttagtctcca aatgggatgt tataacttgt 180  
 acgaattcca gatgagctta tcaagaatgc caagtacata gccacaccat ggaaggggat 240  
 cctggcagca gatgagagca cgggcacccat cgggaagcgc ctagcgagca ttaacgttga 300  
 gaacattgag gccaaccgcc aagcccttcg cgagcttctc ttcaccgcta catatgcctt 360  
 ccaatacctc tctggg 376

<210> 22083  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22083

taagtttgca tttcatcaaa cattaaaggg ttacactatc acacatcaca catggtgcaa 60  
 gtttgatgca agttatggga tatagtggta agttaaaaaa aaaaaaaact tatattcaat 120  
 tcattttttt taaaatgagg ccaaaatcca acaaaagcat atacgcatga cttttttttt 180  
 agattgagtc atgaccagat taatgtaaaa agttccaaat ttaattcata ctaaaaaatt 240  
 taagttcgat tcctatatac atcgggcac tttgggtcaa gttagttgct aactggactg 300  
 ggttggtgga agcattgttt gcataagctt tttgctggct aattaagact agattatgtt 360  
 aaaacaacct aaattaattt gtactcaaaa tntaagtatc aatctacaca tt 412

<210> 22084  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22084

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 tctgggatct caatcaaate tggggagtat ttaagggtcaa ttttctttaa attcacaaga 120  
 ttctgtaaca agaaaaaacc atcacaatgt tcagaaatta ttaaattcat aatcacggcc 180  
 ttaactaaaa gagaaatcta atcattcaga tgagaaagtg gtgaatagtt aaacatagaa 240  
 gaatcgtata tcgttcatta gtttacacat tgttagttga attatacatt tcctagggta 300  
 ctatttgata tagaccagaa ctccagaagg gaacctgatg gaggttntcc cgaacagttc 360  
 tgg 363

<210> 22085  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 22085

acactataaa actaagcttg gtataatgaa tcttgctaac ttaacaaagc tattattcac 60  
 tcatttctcg caagtttctt tcattcatta aagttgatag cgttacacat ggccgttact 120  
 gtgaaaagag agatagtggg aactctaaac actttttgta gcatacttcc atagaactac 180  
 aacttgccag tgcgtcttgg cgctcaaagt tgacttttag tgtacaaatc aaatataaca 240

ttaacagcat aagacaaaag gaattaagaa tattaagaca agacaattta aatcttccct 300  
 tttgtgcgtt gtggcacgag ttgcttattg aacctatgga cgctactttc tgatgattgc 360  
 tttttgtact taaggataga gtaattgttt cattgccttt gtactatgag cg 412

<210> 22086  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22086

agctttatta gtaattgagc catatatatt cttattctct ttattatttt atacaaactc 60  
 acgaaacata ttctttccct cgcttatact cattctcact gtctcagcac cttgccaaat 120  
 taacatagct ttaatttctc tccttgcttt ttatgtatca cctatgcata tctctttaat 180  
 ttattcatct gcgtaacttg ccaaattaac atagctntaa ttagtctttc attttgatcc 240  
 ctttcatttc atgcatggat gattccttta atatggaaga tagacaaatc acgtacatgc 300  
 actgtactta actacacaca gcaggcaaag tgggtggtggc caatatctgc atgtatcgaa 360  
 agact 365

<210> 22087  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22087

gagattgagt ttccattct tgctgttatt gtcagtaatc aattgccact gtttggaac 60  
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 agaagctatc acattggata ttgatctcaa ttctaccatt cggaatgcat ttcaggcaac 180  
 ggtatgtgtt taattttttt tatttgaaca ttttgtcaat gatgtgtgtc agttagagaa 240  
 ccttttggat ggaaagtgca tggatattgt tagcaatcat cacatttata acctttcgac 300  
 taagagagtt cattcacaat aggattttgg gaaatattca tggacgcttt tagagacaag 360  
 gcttatcttt ttttctttnt tttttttg 388

<210> 22088

<211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22088

agcttggtta ggatgcttca atggaggaaa agaagtgagag agagaaagag agagggggga 60  
 gcacgaaatt gaaggaagaa aaagagagag aagttgaact ttgagttgtg atgcaatcct 120  
 ccctaggaag ggaccagtca ctagaaccat aagcaagaga ctccaagaag attgggctag 180  
 agctgctgaa gaaggcccta gggttctcat gaacctcagg gtagatttct gagcccatgg 240  
 gcctgtgtcc aattatcttt gtacatatta gactaggatg tcattatatt tggtccttgt 300  
 atttagggct ccatattgta ggtagggtag cctagacata taggattttt tcagcccttg 360  
 tatttttaggg cacctagact agtntttgta tt 392

<210> 22089  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22089

tgccgcccag ctgcccagg cgagcaaggt tgcttctctc agaagcttta tccttctgga 60  
 ggaatcttct ggagggccca agtgggcctg gttgctatct acacccccct ttttactaaa 120  
 tgcaccccc ttttctatct gtttgaatt ctttgtccgt aacgttacgt aactttacga 180  
 atttcgaaat gatacttatt ttccttccgc aaggttacga atccttacgg attatgtatt 240  
 tactctttct tggctttcaa agaagttact gaaactcacg gattgctcaa aaacacgtct 300  
 tttcgatttt cgccacatta cggaatttca cggattacgc aagcctgctt ccttatggat 360  
 ttctgagacg tctcgggact tcatttattg catgtcatca agtaataatc cccggacgaa 420  
 attanggtat gacaatcgct agcgggtatag tacatatt 458

<210> 22090  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 22090



agcttcattg tgagatatgt ggttaaatta aataagatac cttttttgag caggatgagt 60  
 ttcttcaaaa attagttcaa aatgctagta tggcagtatc tagtaaaagt ttgaatccat 120  
 gcacttagtc ttgaagattt aaatctatga actaacagga ttttccatga aaaagaggct 180  
 atactgatgt tgttgaaaca acaaaaaatg catatttgga ctaacattac cgtagaatgc 240  
 tcttcaagaa aatatcatga ataaaaatatt gaatggagtt atacctagct tggattgaaa 300  
 atgaacaaac gaagagtaaa aacaaaatat gactatagaa catagacaca gaatgaggtc 360  
 cacaaggcca aacattcata tgaaaa 386

<210> 22091  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<400> 22091

aagcttcaaa cacttggtga atcaattaca atcagcctgt aatcgattaa aatagagagt 60  
 tttaactata gaagaaatat tctatcctta gaacttttct tctaactcct acatgatgat 120  
 gcatgatgca catatgaaaa gatagagact aagatgcaac acaaaatata acaatcaata 180  
 caaatgtcac tcaagagagt tgaacatgta aaacacaaaa cttcatcaag ttgttcttgg 240  
 ttctttttca agcttcaagg ctaagtcttc atgttggttc ccgtatctct aacatatatt 300  
 atgcacttat tatatgattc cttccttttc ccatgttggt aattacttcc tgggttcaaa 360  
 gatacacctc ttggaacaat aactatgttt aatactctat gcaggttggt cgccttccta 420  
 cacagttcct ttttcttaaa ttacaaaca cttatatcaa aggggaag 468

<210> 22092  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 22092

agcttgctct aaatttacat tgatgtttgt atttatggga ggaggttgta tgccattttt 60  
 ttttagtagt gtcccactgg taaaactaac ttccaaatg tttgccttcg caggaaatgg 120  
 ccccgaggaa gcttgctca aagaggcca ggaaggacaa ggcagccgaa ggaactagtt 180  
 ccgctccgga gtatgacagt caccgcttta ggagcgctgt acaccagcag cgcttcgagg 240

ccatcaaggg atggttgttt ctccgggagc gacgggtcca gctcaggac gacgagtata 300  
 ctgatttcca ggaggaaata gggcgccgac ggtggacatc actggttact cccatggcca 360  
 agtttgatcc agaaatagtc cttgagtt 388

<210> 22093  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22093

gcttctatat aagctgaacc attttatcaa taaacacatg ttgagtttta ttcagaaaat 60  
 tagagtttat ctcttttata ttagtgagag tgattctcct aaattcttga gtgattcaag 120  
 aacaccctgg ctgtatcaaa ggactttcac aacctttgtg tgttgccctc gctggaaaga 180  
 gtgattcttt ccttcctatc atctccaccc ttgttctttc aaaccacaat tccagaaaat 240  
 ccacctctgc ccaaaattat ctctgaccca taactcccat ttcacacact caaattaagt 300  
 gattcttgag cctaaattga atttcaaac gagacctttc acctcgtttt ggaatcacct 360  
 catttgagac cctgtagctt cgttattgc catttctata tttctgtcca gccaccactt 420  
 aacctacgtt ntaccatccc attcatccat tttatgc 457

<210> 22094  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 22094

agctttgtct tattggcttg taccatcca ctggctagcg aagctataac ctcatgtct 60  
 ctcacagaca ataaattggg gagccaatcc aatccttggt accggactct caaccactta 120  
 tgatagccgc cgatgatcgc attactgtct atcctaagcc attatgacct ttcttcacac 180  
 cgcaccccat gccaaagcga ctccttgagg caccctcaca ttgagggcac tgaacaaca 240  
 cgcaagaaa ggcgagatgc tttgatctga tggcactcct ctcatggggc agccc 295

<210> 22095  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 22095

cgctcgtgcaa cgcacatcttt tatgagttat attatgccac tatctatctt ccgctctcat 60  
tagcatcagg tgtgtgtcac tacaatatgt gcacactatc ttacatatg tatcttctaa 120  
ggacaacgag atatctttca caaacatgct tagaactgaa ctcttttgcc acgattatac 180  
caaacaaaca agatcctttc ttttttaata agagctccca gctatacata ttacacttgt 240  
attgcccac ccatgtgcaa attactaagg gtgagtcacc caaattgtga gcttaccata 300  
ctcatcgtac ctatagcata ttcaaaccga aaatcaatgc gtcttatctt gcctgactat 360  
ttcaataatc gacaccgtgt ggagtgggaat cctataccat gcctatgggg atgattctta 420  
gtgtgccaac tgtataaacc tcnttgtgta tccgatatgt aaaccctaa cn 472

<210> 22096  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 22096

ttgctttgcg gatttgggtct tcgctggcga aatgatcgaa gtgggtttta aatgaggcaa 60  
atctgatcat catgctttga taaatgcaaa aaaaactggg gcaagtgaag aggggtgaaaa 120  
tgaggggagaa acccatgcta tgactaccat tcctatatag ccaagtttcc caccaaccca 180  
acaatgtcat tactcagcca ataacaaacc ttctccttac ccaccaccca gttatccaca 240  
aaggccatcc ctaaataaac cacaagcct gtctacgcga cttccaatga cgaacaccac 300  
ctttagcaca aacaaaaaca ccaaccaaga aatgaatatt gcagcgaaaa agcctgtaga 360  
attcacccca attccggtgt cctatgctga c 391

<210> 22097  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 22097

tcgtcaactg gtttgggagt ggaatttgca tcggatttgg tggagaatat tggaagctat 60  
gaagatatat agcagtgtcc tttttctctg ttaaataaac ttataactta gtgatgaacc 120

atatagctag gttagcgtgt aaataatatt gaacagaggt ttttaatcat ctttgggaatt 180  
 gtaaagtccc tctgaaaatc gcttggcctt tttatggcgc tgcttatgag aatgtaaadc 240  
 atttgttttc ctccggcctg ttcggtagct ttctcaacaa aattgggttt atgtctatat 300  
 actttattgg aaatgtctac gattcttcat attatttata gcatatggct ctatccttaa 360  
 ttaggcaaga tgttctagaa cttctacat attatctggc actcag 406

<210> 22098  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 22098

agcttacatt atatatcaaa ttaaattcgt tgtctctaga tacgtaattg cttactgtgt 60  
 aactttctaa gatactatta gatttgtaac ttctgttatt taaaaggact tagcacaagg 120  
 aattgtgctc cttgaaagtg agcaactcag tttaaaggaa agataaagta aaagtttttc 180  
 tggtcattga tgttaaaatc ggcgggtcaac gtcacccata tattaattgt ttttttgtaa 240  
 cctaaagggt ctaacgagca actcattttt aattattaga ttatgaaaaa aaaatcactc 300  
 atattttgtt tatttagttt cttgtacta gagacatgat agtaattatg gggtattatt 360  
 ttttttgaac aatacaaaat att 383

<210> 22099  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22099

aaactcaagc ttaggttaaa ttagtctaaa cttacgatgg atcgagggtt attattttat 60  
 gctacagcat agaacaccaa agcgtgattg attagagaaa tatcttcata tgcacagct 120  
 tgtttggttag aaagaccaa cgctttctac ttattgctgt caacttttac ttacttgcac 180  
 ttattgtttt taccatagaa gtagtttatt tctgttttaa ccatccatta ttaatgttat 240  
 tccaacaaag cttattttat gattaaaact atgtctaata agcaagttcc ctgagtttga 300  
 tactcggatc actccgttnt aatgttaaact acttgacgac tcaatgcgtt tctcgatgtt 360  
 tcatttcctt tgaatataat tgntgaaaat tggataaaca gtaactgcan gggaaaacga 420

<210> 22100  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22100

ccaccccata gacaaaagag aagagaaacg ggggccaaga aaccncnatn nnaggagagt 60  
 tgagctcaaa ccagcaanaa naaccgggga caaggaacac gagcagccac tattaagaag 120  
 agacgcgggg cgggcgcgac gcaaccaac cgcgaaaac aagcagaaag gacggaccga 180  
 aagcgggaca cgaacggccg agaaagggcc aaaagctcac agcggagggc cgagaacagc 240  
 gaacggcggg aaaacaacac acacgaccgg acaacacacg caagagcaca agaaagagca 300  
 aacaaccaag ggacgacagc ccgacagaac gaagcgaaca aacgaggagg ggaaaacgga 360  
 cacaacggca cagggcaaac gaagcagaag gc 392

<210> 22101  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22101

agaggtcgct tgatcctttg atactttgaa acacanncan cnaaatagc gtggttttgg 60  
 gacagacaag ttttccctt gttaacataa cgggcgcta tggggattga gaccactcac 120  
 tccatttata gtgttaacga accacgggat gtataaaggc gtttacacct ctagagtgcc 180  
 actgcagct aagcggctct gaatggtagc acaccccggt ccttcgtata tagatgggaa 240  
 gatgacctgg caacagacgt gacggtatgc cattacacc cactttgat tttgtccaat 300  
 tgatttatct aactatcaag ggtggatgaa ttatgagctg ggggccgttc gcatatgtag 360  
 ggggatactt aagcactggt tgcgctattc ttaaccgagc 400

<210> 22102  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 22102

tttcttgtgt tactcttaaa ggaaaaaaga tttcaagtta tgtcttgagg ctgagacaaa 60

tgccagcaaa aatgctaccc ttcttttagaa ctttttaggag ttggaaaaca aagggaaata 120

tcttcaaagt gatctaaagg agcttaatga acttcataat catcagaaag aagaaaaata 180

tgatctttgg agagatcgtt caaaagcaca caaagattat gaagacctca atatgagtaa 240

acataatctg tgtggaaggt gaagaacata agaaatatgt gagtttcttg aataatgagc 300

ttctgaagta tcaagaactt aagggtcaac cttcagatgt ttgtaaactt catgaggaaa 360

taataacctt aaagactata tta 383

<210> 22103

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22103

acactctcgn naaactccgc ttgccaagag aaggagtcca cggagggttat gcttaccatc 60

tcaaaagact ggaaagcgggt ttctaatacgc tctctgcgg cctccacata aggcataagaa 120

gatgggcagc tcacctagat gtcttctctcg cctgatacga tgaccagatg cccttccact 180

atgaatttca acttttggtg gagtgtacag ggaacaactc ccattgagtg gatccatggc 240

cgccccaaca gacagctgta cggggggggtt aatatccatt atttggaagg taactcgaca 300

ggtgtgaggg cctatctgta ccatgagatc gatcctccct ctaacctctc ggcgaggggc 360

gtcgaatgca cgaaccacca ttgaactcgg ctttatgtgg gaagcattga atggtaattc 420

tccagagtgc tttaggcatc acgtctaact ggaccattat cga 463

<210> 22104

<211> 390

<212> DNA

<213> Glycine max

<400> 22104

ttgcttgcat gatttacatt ctcccccttt ctcaagcaaa ttcttaattc ttcttgacat 60

catcaaaatc ttcattgattt acattctccc cctttttgat gaggacaacc acctgtaggt 120

tagaagcaac aacaaagaaa aaatatttat ttgcatatag ttactcctc cttgggttttg 180  
 caatgattgc ttatatgaga cagttgaaga tttcatatatt ttcatatgta aacaaattgt 240  
 ctcataaaca atagataatt attcttacta ttttatcttt tatctttctc tccccctttg 300  
 tcaacatcaa aaacaaatca tgaatagaga ggagaaagat gttaccactt tttgcaatgt 360  
 atgagaatca agtgatacca aaaggcatta 390

<210> 22105  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 22105

atactctgct cgaatgggaa gtgtgaacgg ttttttcttg cttttattcg ttgaccacag 60  
 agaggttcct gtagatatgt ctgagaggtc aggacacctt ttagacgtca ggtgggggtgc 120  
 tattgcccac aaccaagctt gaccaatccc gacccatccc gggcatagtc ggtcagtgag 180  
 aacctgtgat gtacctaaac aggcgagctc ctgacagtca acagctaaga ggaacacata 240  
 ctacaaagca aggaggcttg ggggtggctgg ccagctgtga attgtgtgtg atatgtggat 300  
 catggcctct ggtaatcgat taccaagggt ggcttatcta tcacgatgct taaaatagaa 360  
 gacacgaggc taagatggtc tctggttata gattacc 397

<210> 22106  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 22106

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 aagctcattt ctgcgcctat aaatagagat ccaagccaag ggagaacgta cacctcgctt 120  
 catagcactt ctctcagcat tccaagcctg agctctccat tttctctcta tattctttgc 180  
 ttttattacc cattctttct ttcaccccta tttgtaaagc cctcaatggc catgagcggc 240  
 taatcccta gctagggcct gacaggccta aaaagccaac gatgtatggt gtacttcagg 300  
 agttatcaat gcaaagagga ttcattccag gtttttaggtt ctaattcttt tctttttatc 360  
 ttgcatttat gtcttgaata tctt 384

<210> 22107  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22107  
  
 ntatcgtcag tctcaaactt ggcctagtct ctatTTTTca aaacctatca tttactttat 60  
 ctattgtatt tttattatTT tataaaaaga aactctatTT tattgtctat caaatgaata 120  
 aataaaacat tcttttattt tctctcaaT cattatTTta attaataaag gcatttctcc 180  
 ttatttattt aattataaaa acctcatcat tttttctaaa aactatTTat ttataaataa 240  
 taatccctta taaattagtt tacaaaaaT gaaatgttac aactgagtaa tccaaatgac 300  
 aaaattaagg ttgacaatca cgaaaatatt gcgttgagta ggtgatgtac ataatcatta 360  
 taagaaaaat atgattaacc ttaatatata agataaatat taagttaatt t 411

<210> 22108  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22108  
  
 agcttagcat caaccccaaa ctcttcaatt tccaacaaca catatttatt gcattgaaaa 60  
 attagcaatt gcaatgggtg attccttcta taaatggaag aagagaacca acagagagtg 120  
 catgaaaagt gagaaacaaa tcttcacatt tagatggaaa tgtgagagtg agagagagac 180  
 acacacacaa agagcatgat agaaagaaaa ttgttttccc attattgtta caatagaagt 240  
 ttgagagact aaggggttcc atagttttcc tcttgctaat actgagaaga ttttccatgt 300  
 aaaaaaaatt atgcttatta ttctacattt cttcttagtg tccattttga cttcacatag 360  
 aagagaaaca aaaatgtttc ttgg 384

<210> 22109  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22109



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 ctaacttgca taaacgggcg ttcctaattc tctacnactg ctttaccgt gaggaggcag 120  
 tgaagaagaa tgttgcattht acctgaggtg aaaaacaaga acgagcctat ggttttagtca 180  
 agaaaagcta actagagcac ctttataacc cttecttgac tttctaaaac gtttgagcta 240  
 caatgtgatg cctccggagt gtgagtcgga gctgttttgt tgcatagtgg gcaccctatt 300  
 gctatthttaa tgaaatactt catggtgccc ccttaactac cccagctatg ataaagagct 360  
 ttatggcctt ataagagcac ttccgaactt gggaaacatat ccttgctgca aggaaattgc 420  
 attcttagcg atcatcatca cttaggttca ttagaggcaa accagttaac aaagcatgca 480  
 aatgggataa gct 493

<210> 22110  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 22110

agcttatatg tttgggttgc catggcttat ctcttgcaat tgattgacac tataatattt 60  
 gacgacaagt cctcgactca tgtccatgac acataccact agtacctaag caacctaaat 120  
 gcttgccatg agtacgtatg gggagtcatt gcactagcgt gcctctacga ccatctctcc 180  
 tatgagagcc aatataccag caagcagtat ggaggttata tgatgttact catgctaagt 240  
 aaattattat agtattgtaa ttatttttta ttattgaaat taatattttt ttacagtca 300  
 tgtgtgtttg cacatctacc tagtggtgac tacttagagt cggaggattg tgtggtgaag 360  
 gacccaatag ccaccagata gaagcca 387

<210> 22111  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 22111

ggactttaag atcgaaggac atgcactgac ccatttatgg ccccgagta cctcgtgat 60  
 acgcgcaagt cgcgttcggg ttgaaccacc ttattaaata gtgacaggct cattttttca 120  
 tgggtcacca ccgacaacta gttggcgatt catgaggcaa caagtcctcg tatgacatca 180

aaattaaagc gaactctata acttcttatt agagcgcac cctgaattgg aacttatgct 240  
aggatttgaa ttacctaca 259

<210> 22112  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22112

agcttgatag tgtgtaacca accattttct cattgtagaa caccggtaac gtgtatacta 60  
tcattgtgat catctttttc tctgtcattg aagggtccac ttgagctgtc aagtcctcc 120  
acctctgggc gtattccttg aatgactcat gctctttttt acacatgttt tgtagttgcg 180  
ttctatccgg agccgtatca taattgtact gatattgcct aacgaaggca accattaggt 240  
ccttccaaga atagactcgg gaaggttcca agttagtgtc ataccctaatt ttcgtccggn 300  
gattattact tgacgacatg caacctttga ttggccggtt caagatactt ggcacccttt 360  
gttgacacat atgtaagtct tgagacgcac 390

<210> 22113  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22113

nttcgattca ttctatgtac ccgtagtggc ccacattgtg tttcgtgcat tnttattctc 60  
gttntgttta ctttttatac cccctcttg acgtgcttaa gccattttac ttaagtcatt 120  
tctcgcttaa cttaaaaata aaataaattt ccaccgaatg tttgaattgt attatccatt 180  
aacttcgggtt aaaatcaatt ccgaccgttc ggtcatgccg taaccacgtt ggaaatcaaa 240  
aagaggtaaa aaataatata ataataaaaa aaatatcttt ttagtgaaat aaagcggaaa 300  
atcaatcgga cgttttctct ttgggatttc tcattcttaa tcgaattaat taataactaa 360  
agtgaaacta aggctaaaat caactcgctt agtcaagctc gtccacaaaa ataggctntt 420  
gaagtttgct atttcaattc ctactaaga aaaatggatc 460

<210> 22114

<211> 385  
 <212> DNA  
 <213> Glycine max

<400> 22114

agcttcaatg ccactacctt atagggatta tgcctttatt tatagtgtct acttgataaa 60  
 tgcacttcca tctcatcta ttcaatatga attgacttac taaaaactat ttccgaaatt 120  
 accagattat agcttcttaa ggatctttgg ttgtgcatgt tttcctctat tttgactata 180  
 tagctcctct ctactaaga cttgctcata atgactccaa agtttctctt gaagattatc 240  
 caaaaaaatc tattatgacc ctgaagcaac tatctagcaa tgccattaag ctttcttatac 300  
 aatcttcttt tttctttgaa aatattgccaa aaagagttaa cattccaate tttcaaagca 360  
 tgttgatat gtttgaccct ttgac 385

<210> 22115  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22115

tgcaagtgta atcaaattac ttgacttaag catgctttat caaagaataa gttacactag 60  
 aatcagaagg tatgctcaaa agaattttct ttattaaata tatctcaata tgagtcacgc 120  
 aactatagag tatcagcatc gctaagaaca agaaatcaca aacaaccata ctatctatgc 180  
 tattaaggca aaacaccata ctacaagcat acatagaatt ataagggtcc tataacaagt 240  
 atatagcata catataagaa taaaggattg aacagtcact aagggtgtat ttaaggaatc 300  
 acaagtttca acaatcacgc ttatgggtcac acataaagaa aaaaagaata gtcaacacat 360  
 gttaacacat tgattaaaca cactcattca caacacacct gcaagttcaa ggttnttgac 420  
 aacattaata cacacatcaa gttttcaaga ccacttgat ca 462

<210> 22116  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 22116

agcttcatat tatcaattgc accatgttcc aagaagagta gagggtagca cctttgttga 60

gtgggttttat taacattatt ttagttgaaa taaaggcccc aacttgtttt aatttgaaga 120  
aattaagggt taataagggtg gaaactctag gcttggtggt gcctcttggc tgaccaagga 180  
gttgcaaat tttccacatg tttttgtgtc ttattctagt ttttaattagg tataatgaca 240  
ccatcaatta ttgttattgt cttaattcta gttttaatta ggtataatgg catcatcaat 300  
tggtgttatt ggtgatcatt tcatcttctc actgttgtaa ccaactcgat gtcattccta 360  
tttatggggt gcacattttc taataaa 387

<210> 22117  
<211> 467  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 22117

tatacaatac tcntgcttat aacctaatta ttgttttcca taaatcatta ccggtctctgg 60  
aacatttcaa aatatttggt tgagggtgga tgcatataga aaaagttatc gttctacaaa 120  
gaaatttaca aaataaactt ttttttttct ctctctcaag atttataaga tgtttgagga 180  
gttttacaac ttaaaaaaaaa ttaaatgcaa agagaatgaa ggcaagata gttcattaca 240  
aattttgtaa tttcaacact ttcaatagac ttcaacaatc aatgtgagta aatcacatcc 300  
tttttgcac tggagcaagt atcaattgga gcattaaatg ctgcattcta ttctattaag 360  
tgaagatttg aaataaaaca tatcggttgc ttaactatag acatgtttca agtaaccan 420  
agggttgagg cagtggtaaa atgaatggaa atgatatac taatata 467

<210> 22118  
<211> 394  
<212> DNA  
<213> Glycine max  
<400> 22118

agcttggtca tggtatttaa aagatgcagt gacatatggt ttcaacataa tttataataa 60  
aaattgggtca tgctcataat cacccaattg ctgacagatg acctgaaaat tacatagtta 120  
agataaggaa gcacacttgt gcacatata taagagaagg ttgtagcttg cataatgcgg 180  
aaattggcaa taaattagga ccacagataa ggagattttt tctttctaaa ataacattac 240

aattgatcag attaaaggat gtaagaataa ctatgaccat atgtaaaaaa ttctgacata 300  
tcaatgtaaa attctaaatg tacatatgac aaataaggca gcttcaagtt tggaccaata 360  
ttgtgcttac aaggctagaa tactcttattc aatt 394

<210> 22119  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22119

ggagggcctt gancctttga nccttgagac cctcgaacca ccacacnaan cnactactgt 60  
cactgccaca cgcgtcttcg tgcaatttac tgcattcaat ccagcggcac tgagggatat 120  
tcacgaaatc ctcgcaacct cgatatatac ttctgcccga ggggattgct cctctgagga 180  
aaacagacta taccaacgac cgagataata tgctcctgac accaaagaac agtctattcg 240  
tggagaagcg gatcatactg agttccggat cgattcgctc gcgaatgcga caaacccaag 300  
cttcgcgaca gtgtgtgcga ggaacaacag tcatgcatca tagactcaga tgttcgccac 360  
gagtatgtcg ctcgagagga ctctctttct atcaagccat cggacaagtc atgcgtcatt 420  
cctgagccgg tgactcacgg atccttaaac tggatgccgg cctcggaagc atccacccca 480  
cctttccata tcg 493

<210> 22120  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 22120

tcttcttgaa ccaaaaccgg cgagagtgtg atcttaaact gtgatcgaac gacttgctat 60  
gagtaataat ctttgcata atctcttaac tttagaatga aatgtataaa tgaggacatg 120  
atggaggcca tgattgtgca tacacaagcc ttttgaccaa aaagcttacc ttgaatgata 180  
actgtaccat ttgcaccctt tgtgagctga atgatgttgt caataattga accctgaacc 240  
taaagatta tctccagata ccttgcttag attctaggag agcatatggt tcaaggcaaa 300  
ttcaccccaa atttggggga gtggaactaa ttgggatgca aagaaagaga taaagcatca 360  
acacacacaa catataagtt gtgtgtt 387

<210> 22121  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22121

tcggggaatc tttggacaac gttgttttga gtangtatgc cattattggc cattgaactt 60  
 gcaaatttgt agctcctttt tcatttcagc ccaacaatag tttggttcgc ctgggccaaa 120  
 gtgtggtaag gtgaagcatt aagctcgagg gttatttcga accagctaga attgtgttct 180  
 ggctgggcca gagcttgaca gaaaggagaa ttctctccag gggttatggc ctgaccaaag 240  
 ttgtgtttta gttgggctag actgtgacaa aatagagcat taaactcaa gagtgtttta 300  
 gcccatcaag aggttgtgtg attgggacat aaaagtgata gaatggtttt agccagacta 360  
 gaatttggtc aatcgggcca aaaatgtgat agaatgggta acttatgtct acaggagtta 420  
 t 421

<210> 22122  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 22122

ttgcttcctt tattttcacc ttttcccag cttataaatt cttttaactc aaaagctaaa 60  
 ggcctaaatc cttccaccaa agatttataa ctttaagatgt tacattggac tataaagtgt 120  
 atgtgtggat taatgcttgg ataatatatc gcacgtttta agaacagttt tgcgagaaac 180  
 aacaaaatat cgcattactc aattgttgtc cctgaagtgg aacaatgaac aactagtga 240  
 cactacaaga aattacatta gaccacctgt acaagtttat atagataaag catgtgtatg 300  
 ataatagggc tgattatgtt gtgtgataca ttgtccggcg tgatatatat ga 352

<210> 22123  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 22123



caanaggata catgctcaca ta

442

<210> 22126  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 22126

tatctttcat cttccataag ctgttccacc tgaagttttg agaacaatct gttaatatata 60  
ggactgaata aagggatgct tactaaagat acattattag ttagatagga gtgaaagaag 120  
tacaataatg aagagttaag ttactaaatt agaatatcca atcaatgatt cgtattgtca 180  
tgtttatggc atacagaatt tcatagttca ggcgaaattt agttcaaaca gtaataaatt 240  
ttagttctct gtcttctgaa attttatacc tagtacgaca tctttactgt attactattc 300  
gctaactaga acatgatggg tgttcttaat tgttcatagc gtgacgaact acatgattaa 360  
gacttcttat ctttaaatt 379

<210> 22127  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 22127

tgagaagtac tgctgaacac aacattttta ataaatttat gtttgtgttg cagagggcgt 60  
aaataaactt aacggccaat attctgagct tattcagaag tccgagtggc gaacgtaagc 120  
acacactgca atgctaagct ttggcatata atataataat aacgaaagtg attaaaaatt 180  
ctggcaaaaa tctactagct ttataaaagg ctgagaacac gagcattgcc aaggggatga 240  
tgataagctg atctgaagga aattctgttc tgaaaccac actcattctc tatctctaaa 300  
aaataaacac tctctttctc tctctagaca atagagagaa gtgaaatga 349

<210> 22128  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22128



agctttagg attatgggt actcatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
gcaagacaat tctccacatc cacaaatcac gtataaaccc accatcccct gttgccacc 120  
tccaactgag ctcacgtact cccacgtagc ccatattctc gtttctctca acaccgggtc 180  
cccatcaatc ctcccaagct tccccaacat ccaggtaaata caacattcaa acagcacaaa 240  
ctatcacagc caagaaaaca gggcaaaggc agaaaactct gcccaaaaaca ccaacaaaaa 300  
tcacagcttt tttctactt agagacccca gtaacatttc cttcgttcca attctttaac 360  
cgttggatcg actcgaaaan tttactggaa gt 392

<210> 22129  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22129

tcttccatgt ctctaccaac tgcattatca tgaatattac tgcaaacatt taacatgcat 60  
taattattag tcagaagaaa caaaagtcac agtgcttttt ctttttcaag aaagaaattt 120  
aattttgaag gaaaaaagac tataagaatg acggagataa tattctcctt aaaccaaaga 180  
acaaaataaa aatggagaaa caaaaaatac agaataccaa acagaatccc taaagaatgc 240  
taaaaaccca tgtattgtga cagtgtatgt gaggaagaat tgtagtggat catagcccca 300  
agtgggcaag aaaattggct tgacttgggg taactaactg ccagcacggc cagtggggaa 360  
attctgttgt aagctacaga gaagagatat aagtggttat ggtgaaatgt gatctgatgc 420  
tgttcctatc tatcanaatc cttgagttan acaccaagg 459

<210> 22130  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22130

cgcttgtcaa ctttgtacct gaaaccctct gtctaaatca aagctttgac cctgaaaccc 60  
tctatgtaaa tttgacagcc tcgtatctcc cttcctgaaa acccactaaa aactgtctaa 120  
ccccccctgc tgatactcta taattcattn tgcaataact gcttaaggca gctacatata 180

gtcctaaatc actacagatt cagttacgac taaccctgtg tgcctaacta gggtttcaaa 240  
 acatcacaac agagaccgac cattgaacaa tggattgtca tcattataca tacaacagag 300  
 acataccttc gatggaagcg catacactaa ctacacaaac gctaactcga caatgcg 357

<210> 22131  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
 <400> 22131

tatgtgataa atcatgttct atgtgatagt tgtatgacgt tttggagaca ttttacagaa 60  
 cctattaatt ctgaaggga aagaatatat agtcttcaaa tgtttctcta cacacacact 120  
 tagagcagta ctcatctcga tggatctaac ataaggcgga caaccttaag taacatcatt 180  
 ttagaggcac agcttaagt agttgtat ttagaatctt tctaaattac tttctaggag 240  
 gaatccatta aaatacacc ctaatttatg agctttcaca aatgggttta agtagttttg 300  
 tatcgacatt atgtaatgta tagctaaatg aggattttct cttgttt 347

<210> 22132  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22132

agcttgccgc gtcaaagat tgtttctgga gaacaggatg gatatatata agagtgcagc 60  
 attctgtagc ttttctgtat aatgggttgc tctctatctc ggcattgtgt ctgcattatt 120  
 ctcaattgat tatatttcaa ttagcactaa aatcttctat tatcttattt agagtatatt 180  
 gcatttcata aatctctcct gcaggtcagg tggctttaga tgcaccattg cgcctcaaaa 240  
 gtccgcaaag ttgtcaaatt ttatgcgtta aaccacttgc tgtttctgct agttcttgtg 300  
 ctcaatttgt tttgaaagga ttcaattttt tgctgtctaa ctcgaggtaa atctctatac 360  
 gctngatgat ttgaatttgt 380

<210> 22133  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22133

tcagtgcgaag cgcatatcta acaacaacaa agaaggggaa ccaaagccta acaacaacaa 60  
 caatgttctc aaagacaatg ttgaatctaa tgcacggaga acctctagaa tcatgaagaa 120  
 gaagcacatg ctttaacaac aacaacaatg ttctcaaaga caatgttgaa tctaacgcac 180  
 ggagaacctc tagaatcatg aagaagaagc acatgctttt cgaggattcc gatgatgctt 240  
 ctccagcgtg gaagaaggcg ctgaagcagg gcgatatgct ggagctcttg aagatgggtgc 300  
 taaagacaga ggctgagaag aagaagagca agaaaaagaa aactgataac tantttttnt 360  
 aaattggaac aggtgttact aattttaagt tagagttgta atatttatta taacttnntt 420  
 tntttttact ttatcac 437

<210> 22134  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 22134

agcttgtgga tccagggatg gttctaggaa atcattaag gaggggttga caaaattgta 60  
 ctttaattat ttaaatatct aaattctaataaataattat ttaataaata attatttatt 120  
 agttctacag gtaaaactaa aattgatttt tatttcaaataacatatt tcttatttca 180  
 agttttgaaa gatttgttga tctcaciaag acgatcaaataagacaataat atggctttta 240  
 aaaagaggaa taaactcatc aaatataata atagttgaaa taaaatatgt ttttagtcca 300  
 ttatacttac gttaattatt tttgggtctgg aaactttcat attgtaaatt taatccttga 360  
 aatttatata aaaaaatgat tatagtctct ag 392

<210> 22135  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<400> 22135

aaaacacctg tagatagttc tttctttctt atgatgaaaa tgattcctat cgatcaaatt 60  
 tgggtgcctat tgtagtaatg acgtggctag gtcataaatt attgctgtta cgtggaatta 120

ttccaatttc tgcctcacat ttattttgat gataacaatg cgcaaaactt ggtcctgtaa 180  
gactagtcaa ctgccatgca atgtgccaat gggggggccc tcggtttatg cttgcaattg 240  
tttttatcta acaaaaaatt gacggaattt tgatggtttt atctctccaa tacacatgaa 300  
ttttacaact tgccacgtgg tcttgatctt caaattggac ggtgagatga gtattgttta 360  
tggcattgag tttgttttcc ctcatggaa ccaagcta at tggaatagaa tccaataagc 420  
tcaccatttt tacttgtgac ttctcagaac aacctaaatt ctcg 464

<210> 22136  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 22136

agcttggtaa gatcctcctt ggtggggatg tgacgtgcac cgcacacact cacgagctcc 60  
tcacgtgccc gtatctgcca ctgcggatgc atcgcgagca ggatcgtggt ccacgttagc 120  
aaattcgaag tgggtgtgtt gctgcgaag aaaaaggttt tgcactcttc cactatgtca 180  
tccaccgtta cgttcacatt ggaggtggtg ttgttgttgt tgttgaagc ccaaatcatg 240  
agccccagca aatccgttg cctttttgtt tcttcttcc cacacgcatt ctcttttctt 300  
cgtcgttcga tgatcttcac caacgatttc ttgatttctt tgtccagttt ccaagaatat 360  
atattcctcc tcgtggggaa gaatct 386

<210> 22137  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22137

tgcttctaca ccaaacctga agcatccacc tccaccataa agaattttgt taagtcaggt 60  
aaagccaaaa ctggagcctc agtagcttct tctttaattg ttgaaaagcc agttttgttg 120  
catcagacca gataaagtta tcttttttaa gcatgttagt taagggttta gcaatgccac 180  
catatccctt gacaaacctt atgtaatatc caattaacct caggaagcct ctaagttggt 240  
tcaaagtttg aggtaatggc cactggtcta ttgtgtgcac tttagctgga tcagttgata 300  
ccccctcctt agaatgaag tggccaaggt actctaccat agacacccca aaatagcact 360

tactcttctt agcagacaag gaattcgcct tcatagttat cacaactttg tgtanatgta 420  
gcaaattggtc ttccaatgaa caatt 445

<210> 22138  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22138

atcttactta cataaaataa aatccatctg atatggaaca catgagatac acaaaaaata 60  
ccaattgata atgaacacag ggcaaaaaga aagcgtagtt acactctaca gattatgcaa 120  
tttaatacat acttattttc ttaccctaa caacaaattt tttacaatt gaaattaacc 180  
cacaataagt attcagtaaa aagcttaaaa ctcaaatcag acaatgttaa attgccacac 240  
ccttcttcct taccttggaa tgaaaatcca tcaaattttc tttccattgt caacagagcc 300  
gtacaagaga aagagtctga cttgtccct tgaagaatgc ctggtnagac actctgtaag 360  
agaatataca atttgaaatc aaaataac 388

<210> 22139  
<211> 452  
<212> DNA  
<213> Glycine max

<400> 22139

taaatagact gttccatgct attacctatt attactgttt tttttataa aaaaattact 60  
tttcaattac attaatgata tagcacttat ctatctatct atatatatga gtataaaatt 120  
aattaattta ctataaaatc aataatttac tatcatgtta taaaattagt atactctttt 180  
attactataa tatagttacc gatgtttctt tttttttttt aaacagcaaa atatattatt 240  
aatgaagaaa ccatgtgatt acccacaagg agtgacaacc aacatgcata gagtcaccga 300  
tttttgataa tcaatataat tataacctga tataggttat acttaaacad tttattttatt 360  
agtttctaac acgaagattt ttctattatt aaatctactc taaataaaca aaactggcaa 420  
atttaaagct tttaaattgt acaaaatata at 452

<210> 22140

<211> 389  
 <212> DNA  
 <213> Glycine max

<400> 22140

agcttgccac ccagctcgct caggcgagca gggttgcttc ctccagaagc aacagccttc 60  
 tggagggccc aagtgggcct ggttgctatt tgcaccoccta tttttactaa atacaccccc 120  
 tgcctttttt tgggtgattct tttttcgtaa agttacggaa acttacgaat ttcgtaacga 180  
 tacttgTTTT ctttccgtaa tattatggaa ccttgoggat tacataatca tccccTTTT 240  
 ttacttacgg aatgttacgg aacctcacta attgtgcaac gatgcttctt tttgatttcc 300  
 ggtgtgtcac ggaaccttac ggattgtgca tcaatacctt cttttcattt ccggcatgtc 360  
 ccggaacttc acaaattgcc taatgatgg 389

<210> 22141  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<400> 22141

tgacagtatt acaaacttga atatatgttg ccaagtgtga gtatggatct tcatttggtta 60  
 acccatgaaa caaattgctt tgtattagct gtatcaatga aggtgggttaa gtttaagtttt 120  
 gtgcttgaac ctctggccgc gcaacacttg agaaatattg tggcaccata gtacttgagt 180  
 aatcttccaa ggtcactcgt cgaggttgct cttcagccat gacttcggct tcaagttctg 240  
 ctgtttgaga ttccttggat gtaggtgaac tagaagatga tgactcagaa aagtgagcct 300  
 cttcaaggat tgatgctact gtcctgtcgt gcaaaagctt tctttttctc tttgcgttgt 360  
 ttcttctaaa ggtggcttca atttctaaat ccaatggaac caattcacct gcagaagatc 420  
 tacgcataca aacactaaca ggaacagcag ttaaccaat 459

<210> 22142  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 22142

agcttatgca attgtgttat atccagagca aaacatattt aagcctattc cagtcaaaca 60

gaaatacttc ttataataga catcgggtggc gttaaaaaaaa aaatataaag tgtaatacaa 120  
aacttttccaa cagataattc attcaatgtg gtccaaaggt tgtttagagg ttaatttttaa 180  
attgaaacat taaaattgaa gtccaatgca atttcaatta ttgagataaa catgataaat 240  
ggtacttttag ctcttttatt cagagatcct tgcatacata atgcacacca ggaaatttag 300  
cagcaaatta gatttcagtc atttgcatca gtaatgtgga cttggatcaa cgctgctaca 360  
taccaatgta atttgaagc ataagctaaa tg 392

<210> 22143  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 22143

ttttctctgg ctgttttggt aggattctca agcgttatat agagaaagaa aggattatta 60  
gtctcaattt tattgtctcc gtgcgacgga ttttctctc ttacaaaca ttatttcaaa 120  
aatcccaacg gtgaagatgt gagaatttga ggaccatacg cggagtctaa atttcaggat 180  
gatccaacag ttaacgaatc caagatcata gttgtactgt aataaattta cgtgtatgcy 240  
aaaaaaaaag gaattttgag agaggaagga agacgaacga atttatgagg aagtgaagac 300  
gtagatcaat atcaaaattg acctaatatg tttctatcta tagtttagagt attctaaact 360  
tattatctac tctattattt tatcttatca ctttataaaa aaaagaactc tctattacta 420  
tgtcatt 427

<210> 22144  
<211> 212  
<212> DNA  
<213> Glycine max

<400> 22144

tagcttgagt aagcctctcc cagagacaag caaaatagct tgggaagtct ctatcctcaa 60  
gcttgagtga accaccataa agcgactcaa ttatgtaa atctccttgt aaccctacta 120  
tcactatgta tagtgaaga atctccatat tggagaatta taatcgtgcy ctctactac 180  
tacctgtaat tactatgtga ctatcttaac tt 212

<210> 22145

<211> 510  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22145

ggtgcgagtc gcnttgatac ctngtagata cctagatacn ccgagacact atcnaagact 60  
 cacacttgat tatacatggt tcgcgtctac tatatccaca ctttactggt cgaacgtgag 120  
 gagaccttcg agcctatatc gctcacgtgg tggacaaaca aatggcctgt accgtgcata 180  
 gccaaccaat ggtcattgcg caattgtttt attgccgtaa actatatcgc gcacacaaag 240  
 ttcttgccga ctcgatgct acgcggaccg tgatctacta ctcatagcag acatgctgct 300  
 tacaccatcg aacatctggt attagcaaac tctcgacaga ggccggcccgt tgagaatgaa 360  
 acatgcaaga ccccttttga gaagcaaggc gcttattctt gaccctactc ccataatgca 420  
 aaggtcgcca catcacaagt tacgactgta gggttgcacg accattgacc ccgcaaagggt 480  
 tttatgtgat ctgaggcaca ttgtaccacn 510

<210> 22146  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <400> 22146

agtttgcttt tggagattgt aactatgctc ttgtgtggtg gaacaagcta caaaagggtga 60  
 gagcatgaaa tgaagagcca ctggttgata catgggcgga gatgaaaagg atcatgatga 120  
 agctgtatgt gccggctaga tactcaaggg attagaaatt taatcttcaa aaactaacc 180  
 aaggcaacaa ggggggttgag gagtatttca aggaaatgga tgtgctcatg attcaagcta 240  
 agattgaaga aaatgaggac gtaactatgg ctcaatttca taatgggtctg actaaagata 300  
 tccgtgatat tgttcagtcg catgagattg ttgaaatgga ttatttgctt cac 353

<210> 22147  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22147



gagggcgggg ggtccttttg aacttgagac ctggancacc aaactcaaat cccagagtga 60  
gacgtcagct ttaggacatt ttgtccaata ttgncggggg cgacagccga cagagacgnt 120  
tggtctcgcc taactaaaac tggggcctcc tcgatcttct tttacaagtg gcgactgtgg 180  
tccccgtttt agttctgggg acaccatatg ggaagtcttc ttgggggagcg taggaacaaa 240  
ccccctgaaa gctccaaggg ggatcccacc cctctttgtt gcaatgtaac ccccgcgacc 300  
tcgtgcttga atattccacg tctactctct tgaacagaaa gaggggtgtc tcctccacag 360  
aactagaaa atacgtcctt gacaatgtca ggaggcgac tccctcctta ttatgtcaac 420  
tctgcccattg ctcatcagg gatctctaaa tagtgtgcc cagtcctatg ctct 474

<210> 22148  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 22148  
ttgctttggc atcatcaaaa catcttggtg aatcatcatg gtaactttgc ttccataatc 60  
tccccctttt tgatgatgac aaacctgaaa tcaagagatg catacaaatt attttctagt 120  
cgttcactca ctttattctc cccctttctt tttaagttta agattcattt taagttaagc 180  
taataattgt atgaattctt gatttatatg accccacatt tttctcccc tctggcatca 240  
acaaaaaggc caaagtacgt tgtaacataa aatcatcgc aaatggatta acatacaaga 300  
gatgtattca tacaagaaaa aggagaaaac ttataaaaat caagcaagat aataaattat 360  
ccacacatca taataaaaac atatg 385

<210> 22149  
<211> 447  
<212> DNA  
<213> Glycine max

<400> 22149  
tggagaggat gcttcaatgg aggatattaa agagggtgag aaagagagag gggggagcac 60  
gaaattgaag gaagaaaatg ggagagaagt tgaactttga gttgtgtctc acaagactct 120  
cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta ggtagcttcc 180  
ttgagaagct ctcttaagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240

agctagagtt tagctacaca caccatcta aaaaataagc tcacctcctt gagaagcttc 300  
 cttgagaagc tataacttag ctacacaccc ctataatagc taagctcacc cccatgacaa 360  
 aaaaaacatg agaatacaaa aaaaaaatcc tactacaaag actactcaga atgccctgaa 420  
 atacaaggat aacaccctat actacta 447

<210> 22150  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 22150

agcttgtagg attatggggt acccatcata tgtggtacta ggtggcaatc aggcgatggt 60  
 gcaagtcgac tctccacatc cacaaatcac acataaatcc accatcccca gttgtccacc 120  
 ttcaactgag ctacagtgt cccacgtagc ccttatcctc gttcctctca acaccgggtc 180  
 cccatcaatc cctccaagct tccacaacat ccaagaaatt cagcatccaa acatcatgaa 240  
 ctatccaaaa ccaagaaaac agggcatagg cagaaaactc ttcccaaaac acattccaat 300  
 accacagttt tctcactca aataccccag taacattctc tatgtttcga ttcgttaacc 360  
 gttggatcaa ctcaaaattc ttact 385

<210> 22151  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 22151

tattgcatga gctatatcag gttgagtaca tgccatagca tacattattg aacctataat 60  
 gttagcatat gtgatactct ccatataagt atactcttca gctctctttg gggattgact 120  
 tacacttagt ttgaattgat catatatagg tgtcacaata ggccaacttc gaatttgaca 180  
 ttccaaacct ttcaataaat ttattgaggt atgtctcttg agatagatac aaaatcttct 240  
 tctttctatc ccttttgatt tccattccca atattctcct tgttggtcca agtccttcat 300  
 ttcaaattcc ctttctaact cagctgtgac cttggtaatt tcggccttac cgttacttgg 360  
 tattaacatg tcatcaacat atagcagtac gattacagag gtacctttat tccttttgaa 420  
 tagccatttt caattgacta c 441

<210> 22152  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 22152

tatcttacta taaataacaa ttaatatatta ttatcaaata atagtgtaaa aataatttat 60  
 actatctata tatgtataaa ctatttgctc ttaaaattta aaacaaaaga aggaagatta 120  
 aactcttggtg agagcacggg aaataaaagt atataactga gtcaaaggat gtatgcttag 180  
 agacaaaagga tgcattgctta gagagttatt atgaaaattt aaatgtccaa cataggtata 240  
 ttaaaactaat aattaatcta cacattaagg aaattactat gggaaattac tatggtatat 300  
 tggtagtgac atgaagataa tatgtaataa tacgggtgagt tattaactat ttgttaaata 360  
 atgattctat actaaatggt cgaaattata ata 393

<210> 22153  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22153

tcctaaaatg aaaacatctg gaggccttta aggatatcta gaattaactt aaatagaagg 60  
 cattaataat gtgaactatt catacatcat ataacttaac agtcatgtta agctgcatca 120  
 tattgtacaa tgatgaagag gatatagcac atgattttct tatcggggat cagttctatt 180  
 cccctagttt gcaatttttt ttggcatcta tactttttcc ttttgcaaaa tagaaataaa 240  
 atttaagcta atctgtcaaa tacaaaaaatt aaacatttat aatatatcca atgttcaaag 300  
 tcaaataagt aaataagaaa aagaccatgt agttgaaaaa atgttcataa aacacacaaa 360  
 gatagaaaaa tcaaagcaca taaactaaat ctagtggtcc caattctttc tccggcagat 420  
 gacaatctcc catattntgt caatgctcct gtaat 455

<210> 22154  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 22154

agtttctaga tctcttggag acaacaaggt gtgttttcat ataattactt ctatttttaa 60  
 caaagcaata gaaaatgcc aagcagattta tgcttgataa tatctacata aagcagaaaa 120  
 ttacgatatt ggaaaagaca gccaaagatgg tgggctaaac gtacagtatt atcatctagc 180  
 aatgagaaat tctttttccc tgcttttctaa tggcaataat tgtagtaata aatacagggt 240  
 atatagaaga acattgactc tatggactta ctacgataag acaaaggaaa gagaaaaagt 300  
 ggctttgtgg cgcataatga gcaatacaat gttagagagg gataaacaag tggatatat 360  
 tttagtagaa ctgatcatg 379

<210> 22155  
 <211> 548  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22155

agacgagtgt cnagcttttg ataccctgt tgaaaaccct tagattaccn tcgacatnca 60  
 cgngacacta tagacatact caagtctata ntgagcagtt catctactag tgactattta 120  
 ttgcactata taattgatgc gtcattgatgc gagagcatac aagttcgagt atcttaggca 180  
 taatattact attatctgac gatcactaca atnatgattc ttaaaatgat atcttctaca 240  
 atattcgctt attttaatat tttggtgcag ctattttaga actatcattg gaatataatc 300  
 attattatgt ccatgtaata tgtgcataca tttgcttttt cttcctaaca ttttttagag 360  
 ggacttcctc ttaccgcaca aaatactatc tactctacga ttacctgtgg actaaaaaga 420  
 tttcttctgg agataatgat gctaatagtg ttaacagcaa aaagagttcc acttattaca 480  
 aaatatgtat caacttcaaa catatttatt gaaaccacac atagttaatt cccacatatc 540  
 atttttcn 548

<210> 22156  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <400> 22156

agcttgggtgc cactcttgaa acaaaacacc aaggttcgac atatcgtgtt catcatctgg 60

gaactcccaa tctaaatcga gaccattgaa cccgtattgg cgcgccacgt ggatggtgga 120  
 gtttatgaac acttgtcgtg tgtgtttgtt gctagccatg agggagaatg cggttgagtt 180  
 gctaccacct cctccaattg acaagagagt tttcaccggc gggtaacggg agcggagtcc 240  
 attgatgaat tttggtatcc atttttcatc aaattcgggtg acactaaggt gaaaaagtgtg 300  
 agggctcttgt tggataaagg catagtagat atgagtgaag tattttgtgt caatggaaga 360  
 gggtgaaagg tcatcacc 378

<210> 22157  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22157

tgaagtgttt tcaacatatt tcagtttgcg ggggatatta gagatataga tgagtttaat 60  
 tagttacaaa ttagttatta atttagttta ttacaagtta gtttagttta ttacaaattt 120  
 agttacaagt gtaattatat aagatttcaa gtaaaatctg atttgctcgt tttaagcatt 180  
 attcaaagta atattcaggt tttcttttct cttattttca tctctctacc ttgaactttt 240  
 atcataaaat gtaattgaac taatcaagat cactagttaa ttcagctcac agtttttaaaa 300  
 atgatacacg atcgactgca atttcagctg tgatactgtg acgccaagat tnttgaaaca 360  
 tgcaagactg tattaacact acgattgacg ttgcattgtt catatttgta tgcactatga 420  
 tagaaattgg tatatatgt 439

<210> 22158  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22158

gcttctacaa tctccccctt tttgatgatg acaacttctg aaatcaagaa acacacacac 60  
 acacacacac acacacacac acacacacac acacacactt tttcctagtc gatcactcac 120  
 ataaattctg cccctttgtt tttgaattta tgcttctctt aaaattaagt agattactca 180  
 tgtgagttct tgatttaatc cctatttctc tcccccttg gcatcaacaa aaagccaaag 240

tgcatatcta atttgaagta ttcaaata actaaacatt catacaacat tcatggaaaa 300  
aactatcaac caaatcatga agcaagaacc atgaagcaat aatcatgaat agattaacta 360  
taaaatccac atagtcaa atacatactn 389

<210> 22159  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22159

tcatgatgat gaatcaagta taaatcaagt agtnttgatg atgacaacta gcccaaaaga 60  
atgatttcaa gtttgagtca acaagttcaa gatcaagatt aatttcaaga ttcaagaaaa 120  
gacatcaaga ttttaagagaa gatgaattca agattcaaga gaagaaatca agaagcaaca 180  
agtcaagact tcacaaggga agtattgaca aagaatTTTT caaaaaccaa acatagcaca 240  
gttttgTTTT acaaaagagt tttctcaa ttttctaagt taccagagta tttactctct 300  
ggtaatcgat taccagttta ctgtaatcga ttactagtga taaaatttga tttcaaaaag 360  
tttttaactg aatttgcaac gttccaaaag aatttttaaat ggtgtaatcg attacaatat 420  
attggtaatc gattaccagt gtatctgaat gttgaattc 459

<210> 22160  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 22160

agctttacag cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60  
ttaacctagg gaattaaaac aaactaaatg gctgagtga actgaaattg ttggcaacca 120  
aaagtcaccc ccaacagcca acaagtcagc caccatttgg tctcccaaaa ggctgatgcc 180  
taggttgcca attgggccct tattacaact tgaactaaag cccttttagt tgattaaccc 240  
aaaacatatt tttggtcagc caactctaca aggattgggc cattatttag acaaactaaa 300  
cactctaaaa ttgaaataaa gtggtgtcat ttagtctcc atttgcgcca tgatacaact 360  
cacaaccttg gacttttctc cttgagactt ggg 393

<210> 22161  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22161

actcagcttc ttacatagtc cgcctttgct tgaccttctt tatgtttaan aacattaaca 60  
 ttaggcatag gcgaaagatc acgacgagtc tgtgggttaa aaccataaac aacttcgaaa 120  
 ggagaacaat tagtgggtgct aaaatccttc acaaatcatt tataaaaact tgctaagcca 180  
 tgaaaactcc tcacctcggc cacggactta ggtgtaggcc attcttgaat agccctcaac 240  
 atttctcat caacttgac tccttttgaa ctcaacaac aaccaagaaa cacaacatgg 300  
 ttagtataaa agatgcactt ttcaagattg gcatacaatt gttcttctct aagcacaatc 360  
 aagacagatt ctacatgac aatatgcaaa tcaagtgaag tgcttagata aaatatcatc 420  
 aagtcacacc acacnaactt tctataactc t 451

<210> 22162  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22162

agttactcca taancgaaga cacaccgaca aacaacacga aacacaaaca tggccacgca 60  
 acagccacgc gcggaccgga caaacaacgc gggacaagac acgccgcgca agcggccacg 120  
 aaacgaggta cgagcacatg ccacgcaaac gcagggaaga gcagacgcca gaaaacgaaa 180  
 cagggctaca aaaccggaaa aaagacacga aggacgcaac ccaagcaccg cgacccccac 240  
 acatgaacaa aagcaatgct cgccaagggc caacctgaa caacgacaac gagggtcggc 300  
 caacacgaac atgcatgcag acccagcaag acacgagccc accgtcaact tccaacgaac 360  
 caccgc 366

<210> 22163  
 <211> 183  
 <212> DNA  
 <213> Glycine max

<400> 22163





<210> 22166  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22166  
  
 agtgtctccg gaacgatgag ctcttgaagc cgaagcggag gcggatgaac ccttacgttt 60  
 ctttgacgat ttttccattt gaaggagttt ttgcagattt caatcgggtga aatcaaaaga 120  
 aaaatgaaaa agaagaagat tgcaattttac gggagttgat ttgatgatga aatgagtgag 180  
 ataggaaggt ttggagggtt gggaatggag gaacgtcgca aggaggaagg ggctgcgcag 240  
 gggtttctaa aaacgagata tttatagagc aggacgcatt gtaatcgatt acaagtaatg 300  
 gtaatcgatt acaagaggag gcagcctact ggtaatcg 338

<210> 22167  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22167  
  
 tgtaatggcc tccaaaattt tagacaagtg gcctctgtat cttaagaagg ggggttgaat 60  
 taagataaaa aactttccct aattaaaatt ttaactatgt tttggattaa caatgcaccc 120  
 cagttgccc atcaaatagc taggtcactc gaatgaaact agtgtcctta tctttacttc 180  
 ccttttattt ccaataaaaag ataagtaaag aagggcaact gtcataccct aatttcgtcc 240  
 agggactatc attcatggat attttgattt tcgctagccg aattgagttg ttcgacgcct 300  
 attaccaccc aagacgaaag atcattcgac gttntggtga agaatgcgaa naatacccaa 360  
 aagggagggc aaaagggtca ttnntaatcc tttttttgaa ccctagctcg ccaggttag 420  
 cctctagctc 430

<210> 22168  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22168

gccacaacga cgacaaacaa caaagcgata gaaagagacg cgacgaatac caaaacatac 60  
 tnaanannna agagggggnn aatgagcatc naagaacacc nnanagaann nnncgcgccg 120  
 caaacanaca ccaggacacg cagcgnncgc aacgctaaac aagaagagna nacacaaaga 180  
 gaccagcgga cccgcgggaa acacaaccac ccacctaaca cacancggaa ataacgacaa 240  
 accaaccgga acagcgcaca gacagagcgc cagacaagag agagcacaaa agggcaacaa 300  
 ccaaacacaa accgaccgga agcgaggag caaagcaacc aagaggaccc aaccacacc 360  
 gaccaaagca cagagaaga aaaaaagaa cagcaagaca agggccaacc cggaggagac 420  
 caaaccaaca caaagggcgg cgacaacaa caaccaaggc aggacaacca acccggaaaa 480  
 cggcacggaa caccaaacac acagccaccc accagaagta cg 522

<210> 22169  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22169

tgtacgaata tggcgtaccc atcacatgtg gtactatttg gcggtcgggc gatggtgcac 60  
 aacaagttgt ccacatccac aaatcacgta taaaccaccc atcccctgtt gtccacctgc 120  
 aactgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca acgggtcccc 180  
 atcaatcctc ccaagcttcc ccacattcag gtaattcaac atccaaatca tcacagacta 240  
 acaaaccaag caaaaccggg caaaggcaga aaactctgcc caaaattcaa accataatca 300  
 cagctttttc tcaacttaaag accccagtga catttccttc gttccaatcc gttaccgtg 360  
 ggatcgactc gaaaatatta ctgggagtct ctagaacata tgtatacatt gttaccgtg 420  
 ggatctacta gatnacatcc agaactcatt ct 452

<210> 22170  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <400> 22170

ttgcttgcac tcagcaaatt ccacaaccgc taaaatccat ccagtgaagc gtgcattcta 60  
 aacgtatcta ggacgaaaac tgaatttttc taattttata gataagaaac atcttttaat 120

attttttttt tcaattggat gttttcatct aacttctttt gaccattaat tgtttagactt 180  
 ggagctgaca ttcctattag atgcctatag atgtttggaa gagttttggt gctgttatgt 240  
 agttcaatgt tttttctagg tagcagtcac gtcgggttat gatagcaatc atttcttatac 300  
 taaagtgtat gtttagatgg atagcatatt ctctgaaagc ttttaacaact attctatcac 360  
 catagaactt cctcattgat tgcctt 386

<210> 22171  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 22171

tcttagtttc agatgatgca gatggttttg taactatctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcgcta aactgctggg agttggaggc catcttctca attaaatgtc 120  
 tggcttcaac aggggtcatg tctccaaagg ctccaccact ggcagcatct atcatacttc 180  
 tgtccatatt actgagtcct tcataaaaaat attggacaag aagctgttct gaaatctgat 240  
 ggtggggggca actggcacat aaaatcttaa atctctccca gtactcatac aggcattctct 300  
 cactgagatg tctaata 317

<210> 22172  
 <211> 139  
 <212> DNA  
 <213> Glycine max

<400> 22172

aaaacagccg gacaaagcac gcgcgcctta gaacgcagcc gggctggaag gcacaaacca 60  
 ccacagaaca aagcaaagag gacacgacag cgacccgacc gaaaacaaag ccaaagacca 120  
 cacccaaaga aggcagaca 139

<210> 22173  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22173

gtgaggtccc ttttgattcc cattgatanc tttgnactnn cncngacact ctznaanact 60  
ccatctctaa cgttctcggg acgatatggc ttgtatgtat atcttttttt acgagtgcag 120  
cgggcggtgt aatggtgcac tactatccat tgggttgcac ctaattacct tagtccgtcg 180  
tcagactcac cctctatagc attgcgttat tcgctcatga atattatcta ttccaacgtg 240  
tttgaacctg ctaggtaatg tttatatgct cctcattatc tgcgtgaattt ctagcatgtt 300  
ttgctctcat ctcgatttga tgacgaatat attggttgcg agctatatcc acgtgtgaat 360  
gtagattggc ttgcgggtta tctattatt tttttaacaa gttttattct ctcttcttgt 420  
gtgtgagtc tctgcttagc tttgtctatc actgtgtttt cctttgtcct attccctctc 480  
ctccttcagt cgattttcg 499

<210> 22174  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 22174

ttgctttctc tttatgaata atgtggtatc cactttacct ctggagaatt ctttttcaag 60  
aagaaaatta cttaatcggt cataccatgc cctaggggct tgtttcaaac cataaagagc 120  
cttttgaat ttataaacat gatttgggtt attagaaatt tcaaaaccag ggggttggtc 180  
aacatatacc tcttcttgaa ttaagccatt tagaaaggca ctcttaacat ccatttgata 240  
aagtttaaag ttcatatgg atgcatatgc caaaagcatt ctaatggctt ctaatcttgc 300  
aacaggagca tatgtttctt catagtctat catgtaaaca ttattgactc tatgtcctac 360  
atgctttata ttaatgtcat gctta 385

<210> 22175  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 22175

tggacttgcg agttgattct agccttagtt tcactttatt tatttttcaa ttcaattaag 60  
aaagagaaat tccaaagaga aacgtccgat tgattttttg ctctatttta ctataagata 120  
tttttttatt attatattat tattttacct ctctttggct tccaacgtaa ttacgggtgtg 180

accgaatgat cggatttcat ttttaacagaa attaacagat attacaaatc acacgatccg 240  
 tggaaatata ttttattggt tgtgattagg agagagaatg acttaagtca atgactgaag 300  
 cacgtcaaaa gggggtatgg aaagtaaag aaacgagaat aaaagtacac gatacaaatg 360  
 gtgaccacca ctggtacata gaatgaatag aagagttcga ttcgggtact taccggttga 420  
 agactgaaga acaatgaaga acg 443

<210> 22176  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 22176

agcttaataa atcaatctat ggcttgaagc aagcctcctg ccaatggtat ttgaagtttc 60  
 atgatgtcgt cacttcattt ggctttgaaa agaacatcat ggatcaatgt atatacaaaa 120  
 aggtcagtgg gagtaagatt tttttcttgt gttatacgtg gatgacattt tgcttgcaac 180  
 taatgataag ggtttgctat atgaggtgaa ataatttctc tcaaagaact ttgatatgaa 240  
 ggatatggga aatgcatttt atgtcattgg cattaagatc catagggaaa gatctcgagg 300  
 aattttgggt ttgtctcaag agacttatat taacaaattt ttagagagat ttaacatgaa 360  
 agattgttca ccaagtgtag ctcccattg 389

<210> 22177  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 22177

gtgcttagtg ctcttcttta tctttatagt catagttgct ctctatgccg catggtgctc 60  
 ctctcctagg gaggttgctc gagaactaac actcaatcac tcgcttgagt gtatcatcaa 120  
 gacccatgac aactgcactc acgctcttga gaagaatgaa gaatctggct gaatatcggt 180  
 gttacttggt gacgggggac atcaacatag gagtatgttc aatcggctat cgatgatgaa 240  
 tcataaggcg tagggtgtga gggttgattg attctttatt ccttctact taacataaag 300  
 attagcgagt gccaggtgtg caggttgaat acttaaaaat attcatattc taaattctaa 360  
 acattaaaac actatcacct ttcgacaaat gtaaaagata acacgaaatc acaatgt 417

<210> 22178  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 22178

agcttttagtc aaggaaagta acccaaaaat gacaaagaat aggttggtga aaaagcataa 60  
 caatactttc ctaaattggg tcaaagatac aatattgagt gatgataacg cttctaaaat 120  
 gttaaggaag ctagtagatg ggcctaaaag aaatgttata acatggcaag gatacaatat 180  
 cagcaagtat tcattctaca tgaaatcaca agatgacaat agtataatga aaaataatgg 240  
 ggtagtcta agggcttaat cccaacactt tgctactaat cttgataaca atccccgtgt 300  
 agttttcatg cttactttg gaatcattaa agaaatctag gagcttaatt atgcaaaatt 360  
 cattgtctgt gtttataagt ata 383

<210> 22179  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22179

ctattcatct ttttcattct cttctccctt tgccaaaaag aattcaccaa ggactaaccg 60  
 cctaaattct ttntgtgtct ctcttctccc ttttccaaaa gaacaaagga ctaaccgcct 120  
 gaattctttt gtgtctgcct tctcccttgt caaagaattc aaaatgacac agtctgagaa 180  
 ttctcttgat tcttgctttt cccttacaca aaagatttca aagaactaac cgcctgagat 240  
 atctttgggt tccccttcac aaaggttcaa aggactaacc gcttgagaac tttgtcttaa 300  
 cacattggag ggtacatcct tagctggaca agtagagggt acatctactt ggggt 355

<210> 22180  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 22180

agcttattct atcataaccc ctttctggaa atacatttcc ggtggtgtga acgccttgct 60  
 cctgccccct tcctttgtgt gtgctcacc catgaataag cttgttcttg accttcacc 120

aaagctctat aaatatcacc cttgaaagtt gcattcagtg caattcatag ttcatgcctc 180  
 ttatgcaaac aagcatgagg aaactacata gttcaacata aactcaggct cagctacttg 240  
 gagattctat tataattgca aatttatttc tagttcaata aaatcttcta atttaaataa 300  
 ataaaatcat ccactgaagt taaatatatg gatatcgatt acaagtatag ctctctttca 360  
 ggagtacatt tgctgataa 379

<210> 22181  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22181

ctataaaact cagcttatct ccaggcatat aatgatcgct cttctggctc tatcaatcat 60  
 ctctgatgtc tcctttgagc ttagagattc acacatcctt ttttgcctt taagagcttc 120  
 tacacagcca tgttgaatca agattgcttc catcttgatt ctccataacc cgaagtcatt 180  
 ttcccctgaa aacttctcaa tattggactt tgttgatcct attattcttg atcttgattc 240  
 cccacagatg gcgccacttg ttggtggttg tataagttct ggttctctta gaacctgcac 300  
 aagataaaag aaaaaaagaa tacacagcat acacgcacag cagagcaaga acccaaagat 360  
 ntacgtgggt cgacaatgtg cctacatcca cgggaaagag cagctcatca tcatcacatt 420  
 gatcatgaaa ttacaagttc atacaagc 448

<210> 22182  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <400> 22182

agcttaagcg tcttgttcaa tcaccaaatt cgttcttcat ggtataaaaa cgttcttcta 60  
 attgttatta tttgaaatag aagttcttat ttgaagcatt tcgtatgttt taattatttg 120  
 ttgtaggatg tcaagtgccg gggctgcttc aacatgtaag taggatcttt ctttttattt 180  
 gttttaatgt gattataatg ataatttatg taagtgcagt taatttggtt atgtgccttt 240  
 ttttttaatt tggatgcaga acaactgtgt ttagccactc ccagacagtt gtagtatgtg 300

gtaactgcc a gactgtgttg tgccaaccaa cgggtggacg ggcgagggt accgaaaggt 360  
gctcttttat gaagaatgga gattgaatg 389

<210> 22183  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 22183

actaagctca taccctatatt tatacactac cataaagttt atctactttt tcatgaagcc 60  
accctaagtc tgatacaaaa ttcaattggg tttattgctt gtattgtgat attatatcat 120  
catttattgc tgctgctaatt gctatggatg tatacctgtc tgactatgta caaaagaatg 180  
gcaatggcct taattttatt tgaattaatc aaaatatacc atgtactagc agtatatgtg 240  
tatgtattat gtatcttggc tatatattgc ttggctatat ggggctttct ggtatgaatg 300  
atgctttgat atattcgatt cggtttatct gaagaaaaac cgcaagggtta atgataaata 360  
tgaaaagg 368

<210> 22184  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22184

agcgccgatt ttttgggtca gataccgtga attgagacat agccctttga ttttcacaac 60  
gaacctngtt acgcttgctt agatattggg gctgcccatt tgcttgtcac gactaaccaa 120  
ggcagaacga aaacattgaa ggaggtgtaa tcagcccgtt ggtgtgaatg cgacggctac 180  
ttgtgtggac gatgaagcac cctgaagctt acctagtagg gatccctgac tgagcccggg 240  
aagttgtgcy tgtgtaaag 259

<210> 22185  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 22185

tgtgatgact catagagaat cagactcact tcgtatgaga ctgctcttgg acaatcctaa 60



aaagttattg gcacacctgt cttcaattag aactatgggt agcttttaggt gacagtaaag 120  
 tgtgtctatt cagaaagaac ttgtttgcag acttgaatta tagattcact ctgaatttca 180  
 tgcacacaac gggtaaaaag tgtatgattt actccattta tgcacttgac tcgatcatgg 240  
 tacgttttag gcctataata caaagttacc caactcgata aca 283

<210> 22186  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 22186

agctttcata tgactgcaaa ttacaagttg cccctttaa tataaaagg taataaatca 60  
 tctactacag tagtagccat ctaacctcaa aatttttagaa ctcaaccagc aaatgttgcc 120  
 tcaactctat tctcctgctc gccgagaacc gacactgcct ccttttcacc tattaattct 180  
 accattacca gtctacatct ctgactataa aaacgttgca ggtagatgat tcaaaccggc 240  
 ctaacatgta tgccagggtta atcatagctc atcatgacct tcagtttgct cagttaccgt 300  
 ctcttcgctt gtgccttctg aactgttaac ggatgaatca cttgaagagg aactatcagc 360  
 tgagtttagaa tcagaattct ctgtattc 388

<210> 22187  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<400> 22187

caataactcaa gcttatcata ttccctttca accaagttga attctcaaaa tgagttttgt 60  
 ttatcaaaat atagagtacc ctgaagtaaa gtcggtctca ctatacaaaa tcattgccaa 120  
 aagtctaaaa ctttacaac ttatagaaca taagatttag aaaaagaaca ttgaaaattc 180  
 acaacagctt cagatggttt taccacggca agcgggtcct taaagaacta gccttggtca 240  
 ttacttgaat aatgaaagac aactaaggaa tgatttttgt aactcaatta ggcaactcga 300  
 atggcaaaac ttgagaaatt gtaataaaac caaattcctg aaggattctc taatcctcta 360  
 aaacaggagt tgcaattgtt cgggtgttcc ttoggtgct ccacttctcc tgaccatac 420  
 acagaatcac aattctattg ttgtcataa ttctcatttc ttcacaa 467

<210> 22188  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22188  
  
 agcttctagc caaatggact taccttgaat taattccttt gatagccctt ttgagccttg 60  
 tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120  
 atatccttaa ggaatttttg agctttggaa ttgttttggg aataagtgtg gggggttttt 180  
 gtttcattgg acaacttggt ttgttggtga tgcttcatga tgtatttttg gccatacttg 240  
 atgtacattg tatattggtt aaatgttga catgctgaat gaaatgttgt ttctcaaagg 300  
 ctaaagagta aaaaaaaaaa aaaaaaattc gaaaaaaaaa aaaattcgaa caaaaaaatt 360  
 cgaaaaaaga aaga 374

<210> 22189  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22189  
  
 ngcaattgca tgcggttatc gatgaagaat ccgtatact gngcctacat ataaaacaca 60  
 ttgccactct tcccatttta caaaattata tccttactta ttagcggcct ctacgcgacc 120  
 ctgggtggcc gcacgcatat acataaattg cagcagaatg gggaccatgt cccatgccac 180  
 attgcttcag aaacaacata cgctaacgc cttctccttc agatcctcta ctactacaa 240  
 catgcgtgaa tccccaccca aactgccacc cccatataag cgcactctca caatatggag 300  
 caccttgcca tgaacatata catcctgcgg gaaactaaaa acatcaggag cgaatactta 360  
 c 361

<210> 22190  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22190

ttgcttttagt caagaagaag atcaataatg agcaattaat atggacotta ccagcgacaa 60  
 tggaagggaa agaagggacg ataaataaaa agaagaaaaa gacctttcca tagataaagc 120  
 tttggtgctt cgatattgtc ctggcatcac attgacatgg gccgtaaaac aaggatatcc 180  
 gatgaaatgt ggagttcagc ctttcacata tacattccta gctaattggtt aatgtgaacc 240  
 tgccaccacc actacagata atgctaacct gtctatcttt tgcataaatc agaaatctcc 300  
 accttttgat gattcctgga ggaaattaag gtgatttcaa atatagggat ctttatcttt 360  
 taatgagtga agtc 374

<210> 22191  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 22191

tcattcagta ataaaatagt tacttttgta gaactatctt ccctgaaagt tactgatgca 60  
 tagaggaatt tcgaacttga aaacttgcta acacatgttt aaagagttaa cataaactct 120  
 agatatatgc cactatggcc agatcaatta tcttctgac caccgatagg agaaaaattc 180  
 attaccgttc tccacgacta atcgacgcat gttaagtgtg ggtcaagatc tctgcatatt 240  
 tggtcattctt tattcgatta aacgcgtaca ttactacat ggatgggtacc acaactctca 300  
 cacacttaca aaaat 315

<210> 22192  
 <211> 574  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22192

gccgaccaca ctctaagtcc ntatatgatg agttgatagt atacaggtagc taccgagacg 60  
 tatacatcen nntcttattn nnaagcgcgg acanncttga tggcgatcga acgccctncc 120  
 caaacaanna nnaaacgggg ctggcggacc cttacaggca ccaccgcgcg cacgttttct 180  
 tgtctttgcc acaaaacaca atcaggacga aagaaagaaa tggacaaccg ccgatcggcg 240  
 cgaaaaacac tgactgaaaa cgatattgga taccacagac gtagaaagca ggcgaaacca 300  
 aaggcgcaaa aggcgcgggt ggggtgcgca caagctacgc gtgggtcagg gatggcacat 360

cacacaatgc gaggcgcaga cgacgcgcgt atcgcaccca gctggagcac acacaaaacg 420  
 aggcgagcgg agccaacaac gaatgccggc gccacagagc agaaaccac gcccatgagg 480  
 ataggaaca aggagacaga ccacggaagc cccaccgggc aaagataacc ccgcagggag 540  
 acacaccgag accacgagtc catggcaaca accg 574

<210> 22193  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22193

tgtgaatcga tagaccatca cgagtgttca ttgacatgta cncctgtgtc aatggcacgt 60  
 attggcgctt ggcatccatt acattcagat ctagctccat gtgcataaag tataaatgtt 120  
 tgatcaagtg aaagagtccg aatcaacaca aatctataaa gaaactgaag actctacact 180  
 ataccatggc caaagtattt taccacaatc atggtgacca caatgcccat aataagatca 240  
 ccactaccct aaagatcaat gcctaccagn cgatcacagt cgtgataatt cgataacggc 300  
 tgtgatcaat tcatgaggac cgtgacagat ccataacacc ctatagcact caacgtcaat 360  
 gtgtctgac ccgatcacgc tagatctacc accgttccct atgcg 405

<210> 22194  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 22194

ttgtatgtaa gtaccctacg gagggggggg acgacttggg gaagaacatg agtggagact 60  
 atgggctttg catctccatt tccaaatcca ccaagaggtc gtgacaaacc cattgcttga 120  
 tgagagggaa gaagaactac tgttgggcaa ggaaacccaa atgagtccaa atctctctgg 180  
 catgcgaaca atcacgaaga caatgaagag tgtctttctg cgggtgggag caatcatggc 240  
 atgccgcccc agtagctaac tagtgacgat agcgaacatc attggttggc aaggagaata 300  
 agccaacaga aggtgctaatt tttctatgga atgagaggct gccaaagcca tttgaagtt 359

<210> 22195

<211> 444  
 <212> DNA  
 <213> Glycine max

<400> 22195

gtgacttttta caataaaacg ttatatgtat atgttcataa tttatgattc aatgtcaatg 60  
 tgaattttttt ttacaatgtc attacatgat cgatcattaa actcttctta taacaacatg 120  
 gtgttatctt tgtttaagaa aatttctcca agttacaagt taattaaaat atcgatgact 180  
 aagcttttcca caagattaaa gtgacgttgt ttctatcaaa atattgtctt tcgataaaag 240  
 atggtttctt gacaaaatta ttatgcacat ggaagaatag agtgctcgca ggaggagtgt 300  
 gaatttgaat ttgaaataaa agttacaaaa gttagcgaat agggttactt gaagacatta 360  
 gacgtcggtta gatctaaata attaggaact tgctgtactc gtgtcaaaaa tctataattc 420  
 gaacatctag tggtgaaagt ttat 444

<210> 22196  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 22196

tgtttctttt ggaccttgaa caagcaatta actcctcttt cagaaccatg ctatgtgctc 60  
 gcgactggac cttttcttcc cttcgcaact tgagttcact attgctaccc catagagctc 120  
 cgcaaaattt attccggcca tactcttctt tgcgagccct cttgggtttct tgttcaaggg 180  
 ctcttgcggt aatcgcatc tcttcccgta acccggcaca ctcttttcca acgtgtgtag 240  
 cggccaactt gaacttctct ttggcaagtt tcgcctttcc taactcgctt ttgagagctt 300  
 ggacttcttc gtctcttccc ggtgctacaa aactctcttc gctgacgact ttaacttgg 360  
 cgagcgcac taaacttcgt atat 384

<210> 22197  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 22197

tgcttaagaa gattgctaaa gaagctagag cttatctact acatacttct ctaatagcta 60

agctcacctc cttgagatga gaagctagaa cttagctaca cacccttat aatagctaag 120  
ctcaccccca tgacaaaaaa catgaaaata cacaaaaaag tccttactac aaagacaact 180  
cataatgccc cgaaatacaa ggctaaaacc ctatactact agaatgacca aaatacaagg 240  
cccaaacgaa ggaaaaacct attctaatat ttacaaagat aagcgggatc atacttagcc 300  
catgggctcg aaatctaccc taaggctcat gagaacccta gggcctaccc ttggatctcc 360  
agcccaatct acttggagtc ttctacccaa tgcccttgca cgataggatt gcatcagatg 420  
attaggatat tttatgcaaa acagggcatg c 451

<210> 22198  
<211> 248  
<212> DNA  
<213> Glycine max

<400> 22198

ctgtgcgcca cctgcactaa tgactcggcc tacgcgactc actgaccgca gtaccgattc 60  
cttcgatcca attcggtaac cgagggatcg actccaatat ttgactggac gtgtatagtg 120  
tataagccta cattgtgacc gtcgggatct actagcaaac atctagagct catgatgtac 180  
tactccctgc ccagccaacc acacacgtgc attttctgca ccaagctaatt accctgctgc 240  
acctattc 248

<210> 22199  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 22199

ggatattggc tgagcgatga cattgttgag ctgcggggaa cttaggccat gtacgaatgg 60  
cagccacaac atgggttcct tcctcattct catcctcttc atttgcccca gttctctcat 120  
tcatcaaagt aggatgctca aatttgctc tttcacacc cacttcgatc ctttcgctgg 180  
cgaagacaaa attcggaag cttgaagggtg cgtaaccac cattttttca tagtacaaca 240  
ctgcgaatgt gtctactatt attatgatca tatacttctc catcattgga ggtgccactc 300  
gaactgcaa gactctccat c 321

<210> 22200

<211> 382  
 <212> DNA  
 <213> Glycine max

<400> 22200

tagcttcaat ggctcaatga gcaatgggaa atgatagtca atcaacaaat aaagataccc 60  
 ttttctataa gaggctattg tgataaagat ttatatgata tgatccctat ggaagcaggg 120  
 cacattttgt ttggtagacc atggaaattt gacaagaaag caatccataa tggcttcacc 180  
 aatgaaataa ccctcaccta tggaagcaaa aagttcaaac ttgttccctt tacaccttca 240  
 caactggcca gggatcaagt acaaataaaa ttcaaaaggg atgagcaaaa gaatagaaaa 300  
 agataagaag aacaaccttt aatggttaag gaggagtgtg aggaggtaag tgtctactct 360  
 aagagattag ctaagaagga aa 382

<210> 22201  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 22201

atgggcagct caccaacatg tctttctcgc ctgacacgat gaccaaatgc cccttcacta 60  
 cgaattttta cttttgggtg agtgtagagg gcacaacttc cactgagtgg atccacgggt 120  
 gccacaacag acagctgtag ggggggttaa tatccattat ttggaagggtg acatgacacg 180  
 tgtgatggcc tatttgtact gggagatcga tctctccctt aagctcttgg cgagtgttgt 240  
 tgaatgcacg aaccaccatt 260

<210> 22202  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 22202

agctttgaat aattgtcggt cataattggg taagtgtttg tttgagttta aggaatcaag 60  
 aagtatttgc aacacaccaa aaatctcttg gattaattga attaaggaat gtattttgaa 120  
 aagttttcat gtgggggtcat atatcatttt gaaatcaatt ctctctcttt cttggtttat 180  
 gataattttt gccattattt ttacatata aggcacttag agaagttatt tgcattctaac 240

atattaataa aatgcatatt ttttagtttc ttaatggaat ccacattcac atgtcccaac 300  
 ctataatgcc aaagattaac agattcaaca atataagcac aaccagtaga gaaattatta 360  
 ttagatgcaa aagcaatagt g 381

<210> 22203  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22203

ttgtggcaaa cttcactgca gaattcataa gcttggtatg tgctaaattc cctgtcaagg 60  
 tacctcaaat agtggacaga aaatTTTTtct tcaactgtggg gctagggact aatccttgcc 120  
 ccanaaacac aacatgccaa gggccaagta ataacaccaa atttgcagcc tcagtgaaca 180  
 acatttcttt tgcacttcca tcatctgttt ccatcatgca ggcatactat tctagccagg 240  
 ccaatgggggt tttcaagact gatttttctg ccaccctttt gaaccctttc aactacacag 300  
 gaacacctcc aaacaacaca atgggtcacca atgacacana gctgggtggg ctcaagttta 360  
 acaccagtgt ggagttggg ctgcaggaca ctagtattct tggagctgag agccatccct 420  
 tgcattttca tggttatgac 440

<210> 22204  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22204

ccaccacaca tgggaggaaa agaagacaag accaatnngg gggttgactc agcacaacnn 60  
 aaaaggaagc aaacgaaaca acgactatta cagagcaciaa gggcagaacg cacaacccaa 120  
 aaccacccca cccacgcacc aacagccaac cgacgacata aaggggcgga cccaaagacc 180  
 acccaggccg ccacacaaca cgacacgacc aacacccgcy accaacacaa caccgggaac 240  
 aaggaagaca cagacggagc aacgacacga accagaagca gagccaggag acggaaacaa 300  
 ccccaacac 309

<210> 22205



<211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22205

agggtcacgt gatccctgat cntgaatgc aaacccccnn nnannaggtg ttagaganag 60  
 acatgttttt gactttaatt aaataacaag gggaggtacg gaaaatgtat cccatcactg 120  
 catcatgcta ttaagataat gattgactgc gacggtttca cttctgacat atgtcgtgtg 180  
 gctcgtgaac tattagggaa ttgtgagtga tgatacctgt acgagagacg tctagaagac 240  
 ttcaagagtc cattactatt cactgatggg gacagatatt gattatgcct cgttgttaga 300  
 tgaattctga catcaagtat agcgtgaaca ttgcggatga catctgagaa cgtcgttttag 360  
 aggcgatgcg caggcgacag taaattagcg agtcgcgagt tacatataac gcgggggcct 420  
 tcgatcacia gtctattatg gtaattgccg 450

<210> 22206  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <400> 22206

agcttatttt agagataata atcacccctct agtaagtga atcagtttca gtctgcctca 60  
 tttctaakat acttctatgg agaccatggt ttcacaaaac tgatttattg tcttcccaga 120  
 gaacgagagt aataatgcct ttgtaattta aactctagaa acacatgcac gcttgatcca 180  
 agtctaaaac cgactcttca aaacaagaaa atcttcaggc aacttaattg gtaacccatg 240  
 atgggttgaa ttctctttac caatataagc tgtattaaat acacaattaa ttttacaatt 300  
 actagtacaa taatatattt tgaacctact tttcacacia ttaggagtga agaaaccagc 360  
 tcgtgtcata ctctgtttac gta 383

<210> 22207  
 <211> 575  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22207

agagagtcgt ccncttttga tccncatang annacgtaga ctataccac acncacgctc 60  
atgcatangg taagtgtaca tacataccaa gctcgtctca ccacnctcat aactagtatt 120  
tttgctgatt gcgatgacac cggacattta ttgacgttct cttgcgcgtg cgaatattct 180  
agtcctactc caaagcctcc nctaactgtg ctgttatgtg atatcactca tccgatagan 240  
ctagacctgt tcaggaactg gtgatcactt acataccact actggattat cggagttcaa 300  
ttaatcatct gcattctcaa catcgtcatt gnactctcaa ctttttacag ggtttgatat 360  
tatatgctca tattttcgat agggatatca aactatctaa aggaatctga gttggcatca 420  
aaatcgtgaa gaaacgaatc cattatttgc ttacttgaga tatttacgta aggaatttaa 480  
gtcctgaatt tatactcatg aactttcttc ttacatatat ttctcgtgatt ctcaggatct 540  
catactgtga agaaactttc ttgtgcctct ccacg 575

<210> 22208  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 22208

agcttcattc aaaaactgct ttcaaagctt cttggtgggg aagcataaga tcctagttaa 60  
catcctcgaa tttgctgata atactatttt ttttgagaa gcttctatgg ataagtcaa 120  
agctgtgaag gccattctta gaagctatga gatggtctca ggcttgagaa ttaacttttc 180  
caagagccac tttggagcaa ttggccaatc tgaagaatgg tgttgttttg ctgctgatta 240  
ccttaatttt gccatgcttc aattccccct ttgctacctt gggttgcta taggcattaa 300  
tccgagaaga aaggtggtgt gggagcctat catttgaaag tttgaggcta ggttgaacta 360  
gtggaatcaa aggagcatct ca 382

<210> 22209  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22209

ntngtggaca tttctgactt tcgccagtaa ttggtgttta ttaagatcca aaagccttgg 60  
tcaagactca ttcataattg ttcctaataa ggaaaacttg ttgtcacatt cccaggtgtg 120

ctcttcaatt ctgcaagtcc ccgtccctgc aaagatgcta tgatttgaat tttaacatca 180  
atgggtatca tcattcagtt gctgttgccg ttgttgctgt ttttcttttc agagaaagat 240  
ggttcagtgga tgcattggact ggaaagtcta tcttgaacag ccaacctttg tatctgctat 300  
caaactctttc ttttataata aggatggagg gaatcgtaaa tgacactctt caatccttat 360  
tttgttacct taaataaatg aataactaaa tgtagatgc tagtcacagt agtgtagctt 420  
ctatcat 427

<210> 22210  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 22210

agcttccatc aagtgatatc agagcattag agcttcaagt aggtgctcct taaacctcca 60  
ttaatcttca gctttacctt ctctctatt cttgtttctt catttttctc catgtacctc 120  
ctcacatgct ttatgctaaa tgttggtcac atgattcttt agaatttcca ctgattaaac 180  
ttgctatatg tcttacccta atttcgtctg ggaaccatcc gttgttgga tgcgaccctc 240  
gtttgaccac ttcgaggtat ttggcaccga tcgttaggca atttgaag ttctgagaca 300  
tgccggaagt caaaagaaaa gcgtcgtaac acaatccgtg aagttccgtg acatgtcgga 360  
aattaaaagg aagtgttagt gcgaaatccg 390

<210> 22211  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22211

gaaattaaag atattcaaca tggatgatca agattgtttc tagagtctta ggaagggtat 60  
attacatagg aagggaattc ctatttgaag tatcaaaagg tttggccaag aaatttaagt 120  
taaaaagctt tattcaagag atttactctc tggatcatca ttaccagagg atgtaatcga 180  
ttaccactgg ccaaagatga tttaacaacag ctattaaaat ttgaattcaa aatttgact 240  
gtgtaatcga ttacacatat atggtaatcg attaccagca gtttctgaac attgtaattc 300

aaatgttaga gcttgaatc gattacacac atactgtgat cgattaccag aggagttttt 360  
 cagagaacat tctcaacagt cacatcttgt tatctatttc ttaaattggcc atcanaggcc 420  
 tatatatatg tgtgac 436

<210> 22212  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 22212

agcttgttca ggaattatct gtatgggttg gatgttgaat tctgggtggt cctgggtgtgg 60  
 agatgatggg acatgtttgt gaaccagaag cggaagtctt ttttgggtgag gaagccatgg 120  
 aaaaacagag cgtttgaat gatttcgtaa atctcagaaa actattggga aatgctggtg 180  
 aaaacacgaa tgccacgaaa atataaattt gaatgaggaa tgtagagggc cgtgtgaagc 240  
 aacgggtcgaa tttgccttgg ttcagtagtg aacgtgctat taatgttaag tgattcgttt 300  
 gggcacgttc agatatcagt agttgctaca attcctctag cagacaaatg cccagcttgc 360  
 ccctcagttt ttcaaactga tttgcatcca aag 393

<210> 22213  
 <211> 120  
 <212> DNA  
 <213> Glycine max

<400> 22213

ggggcttgcc aaccactgac atccacaccc ggctaaagca ggaactgttg tcttacagca 60  
 ctctgcttac actaagacaa cacccaacag tccgggtgag cctgaattg tgcaatgcga 120

<210> 22214  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 22214

ttgtttttaca aaagcagatt gtaacaatga tggaaaactg tgtagttaaa tgaagatgag 60  
 atgaaacatg cacaacacct tgacttatat agacacaaaa aacacgagac tagagataga 120  
 aacttaaaaa taccagtgat ccaacagcaa ctaaagcacg aaatttgggg tcgacttcaa 180

cattgtcatc ctcaccaatc tgcacaaaaa caaaatacat atcagtatag tctacaaata 240  
 ataatatcta aaagtaggaa atgtgatttt aaataatcta gacacgtaca aatgtaaagc 300  
 aaatgcagct ttagtatgac aaaagctagc attatttagg agtgaaaatt tgcactgatt 360  
 agataacata ttgacatgga t 381

<210> 22215  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 22215

tctcagcttg gcctttgctg atgtcatggt ttcaatttta agttgtggat atcaggctga 60  
 ttttgtgtgt tctcgtgcc ataattagtc gaggtaatag aaccactatc ggtctgagag 120  
 accaggcgta atagttgata aataacgcac taatgaagaa aacagagctt tcataatcgt 180  
 agaaaaatgt ataagtataa tgaacgttat attaacggcc aatttttaac tttcaatttg 240  
 cttctttggt attagcgttt gtccgtttcc accatatatg atctattact taagcataac 300  
 aaaactatca taaattggat taattgacca cacattatga agcaggccaa tgagaa 356

<210> 22216  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 22216

tgctttgaac atgttgcaag caaacttgaa cagcatcatg tactctcaca aagtaccatt 60  
 ctttgcctat caactccacc agaccggatc tagacaaggt aagcagaact tctggacttg 120  
 gattggatat tgcaatctgc aagaagaata agctcaagtt gggttggtgga gacattgcaa 180  
 acctgtggcg attatttcaa gaattctaac agtagttgaa actttggtat cttattctac 240  
 ctgaatgtcc cgtaatttgt actcctgata caagtctttc aaagcctgaa cagcactaga 300  
 atctatgtag gtcacagctg cagtcacac aagtcataac cacatgatta gaagaaagta 360  
 gaattatcat cattatccct ttcatt 385

<210> 22217  
 <211> 373  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22217

tgcattgtgca cacattaagc gtcattgtaca ttacattctga ctacaattgac cactagattgc 60  
ttgacacattg ttcttccaag ttggactttct cgcgctgagc gcgcacaggc acaccaagtg 120  
aacggcttaa gttctaacat ttttcagtcc attgtttgtt tactaaaact ctatagaaca 180  
agctaaaact ataaaattca ttaacattaa ctttctgaag gcaaaaaaaaa caatcgaaat 240  
ttttattcgaa aaccgagcat taaaagagaa naaaatgag ataattgcta tttaatttaa 300  
gtgcaaaaac caagtataca taacaatttt catattgtgt agatggaact ttattgttta 360  
tattacacgt ata 373

<210> 22218

<211> 387

<212> DNA

<213> Glycine max

<400> 22218

tgcattttagg ttgactagtt cattgacatt cagcaattga aggagatata catctatttc 60  
aagaaaagaa aaatcataaa agacagtgtg cattaaaaaa aatcaccttc attggctgca 120  
tcaacttgaa caaccattgca tgttctgaag aaggaagaac tggcggaatc ttcatTTTTCT 180  
tccagtccat gctaactaaa tcagttgatg ctgaataatc cctgataagc acatcaatat 240  
tttgtactct attcttaaca ttctttttct tctgagtttg atcaatcacc tctcctttg 300  
cattattttt caatgcaatc ctcttatcaa gactcaatcg tttggccttc ttattctggt 360  
ttctaaccac attatcacia ttccat 387

<210> 22219

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22219

ntaattgana ttaagttatc taattatgta agttcttgat ttaatcccta ttttctctcc 60  
ccctttggca tcaacaaaaa gccaaagtgc ataacacata taaaacatac ataatgact 120

aatcatataca gacattttatt gaaaaatcta aaccgatcat gaagcaaaaa acatgaaata 180  
 tccaaattaa aatataaacc acataatcat ataacataat ttatagatgt tcagttatag 240  
 taagcaaata gtaaaagaaa tactaaatgt tcaaagtca taatattaca gatcatttgg 300  
 ataagtcact agcatctagc agtcctaatt ctcttctaatt gttgaagaag gaatctttat 360  
 ttagtgtcta tgagaagatg tctgcaagtt gatttttagt atctacaaat tcataacaac 420  
 atcacctggtt agaatatgat ctctaata 448

<210> 22220  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 22220

tagcttcaga ccaaagcaac tcaaaatcta ggtatccaaa acccctcaat ttaatggatt 60  
 ttcaaggttt gagaagtga attgagaatg aggtaaattt ggagcaaact ctcacctcac 120  
 acaagtctat aacatcaatt taaacttgct caaactggat ttacacctaa aattccaccg 180  
 aatcaaaatt tgactcctca acaccaat ttaccctaga aatggctctt tgttcacttt 240  
 ggtcatttgt ttttctctct agcacagccc aaactttctc ataagtccta aatgacattt 300  
 caagctagga ttaactcact ttaacctcca aatgccacta aatccagatt tggccttcca 360  
 actctcaaaa ctcactc 377

<210> 22221  
 <211> 170  
 <212> DNA  
 <213> Glycine max

<400> 22221

gaacgctcga ttgactttta tgattattgt agccaaagat atttcgatta cttcattatt 60  
 atttttcccg atattttgaa tattctatta actttccgct tgttgtgggt taactcgcca 120  
 tgaccgcgct gaatgatcgg ctcgattttg ttgttcgagc gattaatcga 170

<210> 22222  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22222

agctttgatg gtgttgagaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60  
 gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaaacaag gctcattttg 120  
 cttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcaag 180  
 atcaagcctt gcctcacaat gaaagggttc aagtcattca aggcacatgt aatcaattac 240  
 caatacatgt aatcgattac caatgggttg aaagtgtgta attgattaca catcatatgt 300  
 aatcgattac cagagactct gaacgttgag aatttaaatt ntaaatgaag ggtcacaact 360  
 gttcaagaaa aacaactgtg taatcaatta cac 393

<210> 22223  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 22223  
 agactcagct gtttctatgt gctttgattg ctgtattcga tgattaatcc ctgtacaata 60  
 ggctcgttta aaatccattg gtcagctct catttcaactt aatttggctt tacgttatta 120  
 cttgtctcta tcggtccttg ggtgggggct gccatatacg gaattggaag gaggattgga 180  
 gccatccctt gaccaatttg agttaagaag aaagggtgcca accacgttat gagctattgg 240  
 actaagactc actacaactt gagtgaatca ccaccgag 278

<210> 22224  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22224

agcttggtgc taaaacatgt ccaagggttc taaaaaattt taactttgag gtttaacaac 60  
 gtaatccgct acaaccaga aaaacataat acccagaaag agggagcgca aggcagcaaa 120  
 aaattggaat tcgtgaggag ataattcacg tatgttgaga tagagagaga gtcaaagaag 180  
 cataccatgg cgaattgggt catactcatg tcgaaggatt gaacaaagtc aaaggctttg 240  
 ggggtttagg gttcccgatc acataaattt gaaagaagta tcctactctg cacttcagct 300



tcagacttgt tcaatcgacg ggagttgccc cttcttttt cttttcattt atttatgaca 360  
actntttntt ttattttcttt tttta 384

<210> 22225  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22225

cttattaaat tagcgtgtta aatattnttt aaaaaagggtg gcgctcatgc agtttaagtt 60  
cctctgtaaa cttggtggaa aagtggagaa attattgttg tgtaagtttg ccagacttac 120  
cctcatgaat caatgggttaa aacttagaaa acccaaacgt actgaattag taagggtaaa 180  
aaggatatttt tattaanaat ctattttcttt tttttcttct ttctttcaaa acaaacttta 240  
taatattatt ttcattttctc ttaaaccaaa caattcatat tttcatctct tttctttctc 300  
tcacctactt attttcactc caactatttc ttatctctag taaacaaagt ggtcatcttg 360  
tatagagaaa cttcgttggt ccataatttc aat 393

<210> 22226  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 22226  
ttctattatt aacagcttag atctagtgc ctgaactatg tttaatagca gtttgattaa 60  
taaaacttag aacagcttat gtttagtttt ttataaaata attcagtttg taatagttta 120  
attcattttg gtattaaagt agttcacaga tcacattaat tttttggaca cccctaaata 180  
ctttccattt gataatggca taatatatgg gagaatttac ataactcatg aatgatactt 240  
actaggccta ctgcaatgtc aaggtgatac ttgcgtcctg tagtgtgcac tgggtgcacca 300  
cgactagaag tccgggttaaa attatcattt atcacatcac ctactatgaa tttagaagaa 360  
actcagtata aatgctaaag 380

<210> 22227  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22227

tgtttgacta ggctattatg ctagagagtt ggagttttct aagtttgaca aatgagaagt 60  
gtagtttcta aattattttg atatgttgaa atgaaccata ttttgtagta tgtgcttctc 120  
cacaaccata tcctatatta gcaatgtcct tgagactagc attagctgct gcttctaata 180  
ccaaatccac acttaaaaaat attgacaata cagttgatga tcccttgaat aaataatgaa 240  
catagatagt acatatagaa tcttggtcct tggaccattt tttggtgctg ccgatgtttc 300  
atagaatcat gcaggatgga agcagganag ggaaaagggtt acttagctag ctagatatta 360  
tgccagacaa cctaganatc tgctagtaaa gttccacaat taaagaaaaa taaatattag 420  
tattcaagtg atgaataggg 440

<210> 22228  
<211> 526  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22228

ccccaccgag agacacaagt agagaagaag gaagaggaga gacaacaata ctaaatanntn 60  
ancaggcgtn ncctgagcat cgagacatcc aancnagnna aaacctagga aacgcatcca 120  
aagcacaaca ctattttact tctaacgcac acaaaccgag aggaggagaa gaatggcagc 180  
accgagcgac aacacaaata caaacagcac caccgagag aaagcgcaca gaaaacagag 240  
aaggcccgac gaaagataac aacaacgcag agtggcaaca ccagaacaaa aaaaaacaac 300  
gaaaacaagc ggcaagaagg ggccaccgaa gaaacgcgca ccagagcagc aatagaaccg 360  
agcgaaccaa gccaaaccagg gcgcacaggg cggccaaacc ggaaagagcg caaaaacggc 420  
agcagcccga caatgcagcg gacaaacagc accaggacga cccgacaagt ccaccacaga 480  
gaggcgacac ccgacgcgaa acaacaccaa aacgcgacgc gaagac 526

<210> 22229  
<211> 734  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 22229

gctgcgacgt acacnttttg atccttcgta tgaccccttc gaatacctca caanaatcgc 60  
ggagatactc acgagagtng cctactgaaa ctagnaaaca gcggtttgtt gaatatcttt 120  
cacacattga acacaagggc gngatctgga gggactcttc gttacaacaa atcagcggcg 180  
tggtcatcta gctatgtaat ntntctatct cactggcagt gatcgtgcta gtgtacgtan 240  
tgtantagta ctaatcgcg gtgtagacgt gatcgtagat atatgagcat agaacgacta 300  
tgcccacggc tctcgagana ttgcgtatnt gtagcacgcg cttgtcgagt atacagcgg 360  
gctctgataa nctatgattg tcgtangcgc tgcgccattn tnatcgagac taanactcgt 420  
ctcngccggc acgcnngagt gagagtatat agtcacaccg cgcgatacac gcgcgactac 480  
ggctctgtat atatatggta gtgatgcgtt attctgcgcg ctacagtatn ttaccttgta 540  
cgactcggcg tgcttgccgc ctgtctactc gtnagagtct caacgatcgt tctgcgacag 600  
tctatctcct acgagtcaca catcatncca tgagtgcgac cgcgatgacgc tgatcatgta 660  
tactacgcat atcgnanctg ctgccatgtg acacgcncctc gtgncttccg catgctcgcg 720  
cataccgcgc gcgn 734

<210> 22230

<211> 384

<212> DNA

<213> Glycine max

<400> 22230

tatctttag aatggctaga catgatacat gtcagggttt ggtttggttc aaggataaaa 60  
gggatacccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaattttatg 120  
caaaactggc catgcatgca cctacgtggc cgctcaagtg tcaaattttt atggatcatgt 180  
gatgctaggg ctcaggatcc atttctctta ttttaaatca acccaatggt tccaaaatat 240  
gttcttttat caatttgc attcactcta gtccatttcg ggcgtccggg gaaatttcac 300  
agcattcacc cttcaggtgt agacacattt ttcaaaaatt gggtatgatc aatgaaatct 360  
tttttttcac agaaaagttg gaaa 384

<210> 22231

<211> 462

<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 22231

cgggtacgat tgatccctta tacnttggaa ncacnaccct tcaaactcac gcattggctt 60  
 atgccgaaaa ccacttttgt acattttttg ncacggcccc gcccttata ggggattgtc 120  
 actatacgcg cctccactgt caagattata cncctagcgg aacaacagac cataaatatt 180  
 tcctgagctt acctatagca tttggatata aagacaagaa cgcagtaagt tcattgtatg 240  
 acattagcaa ttgtgcctat acgactgggt tattcgtagg aaaatcttct cgctagagac 300  
 tagaatcgat gccagtactt tcggccacgt attaaggggg ggttaccgag agactcacgg 360  
 tggctctgac gcgatgggac ctttggccaa tgggtctagcc cggcgaggga ttcttgaca 420  
 ccctggatgg cgcgggtaac aacatggggg acggcgctta cg 462

<210> 22232  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <400> 22232

agctttctta agaagattcc taaaaaagct agagcttagc tacacatacc tttctaatag 60  
 ctaagctcac ctcttgaga tgagaagcta gatcttagct acacaccccc tataatggct 120  
 aagctcacc ccatgacaaa aaacatgaaa atacaaaaaa aattccttac taaaagact 180  
 actcaaatg ccccgaata caaggctaaa accctatact actagaatga ccaaaatata 240  
 aggcccagac gaaggaaaaa cctattctaa tatttataaa gataagcggg ctcatactta 300  
 gcccatgggc tcgaaatcta ccctaaggct catgagaacc ctagggcctt cccttgatc 360  
 tctagcccaa tctacttga gtcttctacc c 391

<210> 22233  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22233

actcaagctn tcatatgact gcaaattaca agttgcccc ttaaataata aagggtata 60

aatcatctac tacagtagta gccatctaac ctcaaaattt tagaactcaa ccagcaaattg 120  
 ttgcctcaac tctattctcc tgctcgccga gaaccgacac tgcctccttt tcacctatta 180  
 attctaccat taccagtcta catctctgac tataaaaacg ttgcaggtag atgattcaaa 240  
 ccggcctaac atgtatgcca ggtaaatcat agctcatcat gaccttcagt ttgctcagtt 300  
 accgtctctt cgcttggtcc ttctgaactg ttaacggatg aatcacttga agaggaacta 360  
 tcagctgagt tagaatcaga attctctgta ttctgctcac tgctttcggt ttcatttttt 420  
 acgggcttct gaaccttagg tttgtgctng ngaattctat taatact 467

<210> 22234  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 22234

agcttttttt tattagaaat ttttctaaaa tgtttatggg gtaaaaaatt ctctattgta 60  
 ttatttaa atataaattac cttgtgccag aaatgtaaat tataccttac ctataagact 120  
 atagcattta atattttatt taaagaaata cagtaacaaa cacctatatt tttttattga 180  
 gaaaataaaa taaaaatata aaaaaggacc ctaaacacgt gcaaattgaa cacctatagt 240  
 attaacttgg aaggtggaca tgaatgttta aagtagcaaa gtctagcaga taaattcatt 300  
 atcctaagaa atagcctaca aataccctag cttcttaatt agctaaaaga tcaatacaaa 360  
 aattctcttt tctaacaagg taattaagat 390

<210> 22235  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22235

atacaaaactc aagcttaacg atctacagac aatgcactcc anagtgtcat atttaatnga 60  
 gttctcatat atataaacc atcaataaaa gtaataggat cagtagttac tgggtgaata 120  
 ttgggtatgt tgcataaaat ttcaaagaag gaacagggtta aaaagcagga ctggtagaag 180  
 catacagggga aacatcagct aaaatcatgg gaagatTTTT aaacacaagg ttttcttgtt 240  
 atgaagatga cactgaact gataatttgt gaaaaccagt aaaagaagca atgctgagct 300

ctgagtcac atgtaagtag ttacagacg cattgtgctc catgggctct aggaggatac 360  
 agatagagtg aagaaagtat caatgtttta gacgtgcaga gaactgatga gactcaagta 420  
 gcatgtcaag aatcgaggta tcgtgaaaca cagcaagatg gtcttatt 468

<210> 22236  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 22236

agcttgttct tgaacggtag atgtatcatt tcaacgagtt gtgcgtacca ttaactctcg 60  
 agacatcact atatctctct gcacctggct cactatacaa agggatgac atcggggata 120  
 tgatcctatc tcggactact gggaaactca tcgttggcca aacatcgaga gagtcagcgc 180  
 tgatacgaca ctggcttgcg aagtgaaca gattcattcc gccattcttc aacggctacg 240  
 taacgatcaa tttctgtctt tgaattatat tagggatgag atggacgctg cttacactcc 300  
 tgatcttcca ctgtgtaaga atgtaggta gctaagg 337

<210> 22237  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22237

ctcacgcttg tctccctagg caggaccatc aaccatctag caattcttca ttccttgtca 60  
 gcttcctttc tccctttctt tcttatacgt agtcttatgg tgtaccctg gcttctgtat 120  
 ttggacctct gggttgtgtt ctctgttaac tgccccttgt tctcagctt ttgtatcagt 180  
 attccgtatg gtggtataaa aattagaaca aaggagcat aatgctgttt gtgcttatta 240  
 tgttgtagtt atgaattgta taatggtttt ttttaagagt gtctattatg ctaatgaaaa 300  
 aggatacgtt cactgcacat tcaaaattca tttatgttaa tcactaaata tgcattataa 360  
 tattcataat taaattccta tgctgtcata tagtgcctat ccanagtgat ggatgatgct 420  
 ttatttctag cttgggc 437

<210> 22238

<211> 385  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22238

tagcttgagc atatatgtca tatgaaccaa gcttggttaa aatgtggtaa acccaacaaa 60  
 aacaaaaatg aagatgggtc tagttgtgtg gttgcgcaaa aaacctcggc gacagccaat 120  
 gaaggctcac agttgcgacg gtgttcaccc gtgaataaag caaagcacgc cctcaggtgg 180  
 aaggaggtga ttccaatgta acgctcacca gagatgcac acgcatcgtg tgcgtcaact 240  
 tctcttgccg ttgcgtgggg tcaactgtggc ggtgtgttga gttggctgcc catgtggatg 300  
 gcgtggcatt cttganaggt cgttgatgca aaccgataag aggggtggcac actggttgcc 360  
 aaacaagccc aatagtgggc acgag 385

<210> 22239  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22239

tgttgaagga gaatagataa ggagtttatg aagaggttgt ggtcacggca gtgtttggga 60  
 aggaagaact ccaagacaaa atcaaaatgg ggataagaag aagtccttag aggaatagcg 120  
 acggcagaat gcaagtcaaa gatgttgccg tggtagagaga gaggatattc ggccttggtg 180  
 aaggcggtta tgtccatagc aaaacagggc ttggcagttg tgaaggccgt accgacaatt 240  
 ccttgccgc ggaaaagggtg gtgctgagag catgcctcct ggaaccccaa tagctggggc 300  
 tgaccatccc ccacaaaaca cgctctgtcc acaatcgaca catagttgtt ctcacccctt 360  
 gaatgcccac aatccacaca tagttgttgg acgcaaggag cccatgtcag atgccaaggc 420  
 acat 424

<210> 22240  
 <211> 352  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22240

ctagacatga tacatgtcag gttgggttgg ttcaaggata aaggatacc ccacattatt 60  
 tccatgacac aaatgcaaaa atgatgattg gaaatttatg caaactgggc atgcatgcac 120  
 ctacgtgggc gctcaagtgt caaattttta tggcatgtg atgctagggc tcaggattca 180  
 tttcctctaa tttaaatcaa cccaatgttt ccaaaatatg ttcttttata aatttgtgca 240  
 ttcactctag tccatttcgg gcgccggng aaattacaca gcattcaccc ttcaggtgta 300  
 gacacatttt tcacaaattg gttatgatca aatgaaattc ttttttcaaa ga 352

<210> 22241  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22241

ttgtgcttta tgcttaanag ccacacactg ttcaatttag tgtcatggga caccaccatg 60  
 ataggcgaat gtaatgatag gcgcatgtaa tgttgggatt ataccatcgg ggaactagag 120  
 gttcatagat ctttctggg cttactattg ctatttggtt atcaagaaag tatggtagta 180  
 ggtaaatgta tgacattgga attggggcaa ataggactgg tttcttttct gggaaatctc 240  
 ttctgggtta gtgtttaggt taggattggg agtagtggtt ggtctagggt gtataagggg 300  
 tggattttgt gggtgatttt ggggtggtct ctgtgggtga ttgggagctc ttgggtcgaag 360  
 gggatttng cagggggagg gttaatattg gtcgagcagt ggtattggtg taggggatac 420  
 taatacatg 429

<210> 22242  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 22242

ttgcttgaga tgaggaagtg ttgaaggtg aaacttctg cttttattgt tgaccacaga 60  
 gtggtacctg gagatatgtc gcgggggtca ggagacctg gggacgtcag gtggggtgct 120  
 attgccccaa accaagcttg accaatccc acccaaccg ggcatagtca gttagtgaga 180  
 acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaaag gaacaaagac 240  
 cacatagcaa ggaggcttgt ggtggctggc cagctgtgaa ctttgattga tatgtgggtt 300



atggcctctg gtaatcgatt accaatgggtg ggtaatcgat tacaaggcta agaaaatgaa 360  
gacaggaggc taagatgggtc tctggt 386

<210> 22243  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22243

tctttgagaa aacttccttg agatgttaga gcttatctac acacaccct ctcagacta 60  
agctgacctc cttgagaagc tctcttaaga agattcctaa agaagctaga gcttagctac 120  
acacaccttt ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180  
cacccttat aatagctaag ctcacccta tgccaaaaaa acatgaaaaa aacaaaaaaa 240  
gtcgttgcta caaagactac tcaaaatgcc ccgaaatata aggctaaaac cctatactac 300  
tagaatggcc aaaatacaag gcccaaacga aggagaaacc tattctaata ttacaaaga 360  
taagcgggct catacttggt ccatgggctt gaaatctacc ctaaagctca tgagatccct 420  
anggccttcc cttggatctt tgcgccaatc tac 453

<210> 22244  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 22244

tagcttctat ctaaattggac ttaccttgaa ttaattcctt tgatagccct tttgagcctt 60  
gtttcccttt ccttgtttg aagctcacta caagccttaa gtgaaaaacc atgatattac 120  
catatcctta aggaattttg gagctttgga attgttttg gaataagtgt ggggggtttt 180  
tgtttcattg gacaacttgt tttgttggt atgcttcatt atgtattttg ggccatactt 240  
gatgtacatt gtatattggt taaatgttg acatgctgaa tgaaatgttg tttctcatag 300  
gctaaagagt tctaaaaaaa aaattcgaaa aaaagaaaaa gaacagcaat aaagttgagt 360  
gaataagatc ttaaattggca caag 384

<210> 22245

<211> 446  
 <212> DNA  
 <213> Glycine max

<400> 22245

gacctataaa actcagctca catatcagca ttaatttttaa atatcatatc taccctaaac 60  
 caagaaaaca gggcagaggc agaaaactct gcccacaaaca cactcacata ttacaacttt 120  
 ccttactcaa ataccccagt aacattctct tcattccgat tcgttaacag ttggatcgac 180  
 ttgaaaattt tactggaggt tcctagtaca taagtctaca ttttgaccgt tgggatctgc 240  
 tagaaaaatg tccagaacct aatatgtact acctttccca taaccagcaa tgcacaagca 300  
 ttttctgcac atgttgagca attctgctgc acaaatttga cagctttttg ctgcacaatt 360  
 tggcagattt cgaaattcat cttaccacaca tccaattttg ctcagattgg atcctacaag 420  
 tgctaaatca tgtataaatc atattt 446

<210> 22246  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 22246

agcttaataa atcaatctat ggcttgaagc aagcctcctg ccaatgggtat ttgaagtttc 60  
 atgatgtcgt cacttcattt ggctttgaaa agaacatcat ggatcaatgt atataccaaa 120  
 aggtcagtgaggagtaagatt tttttcttgt gttatacgtg gatgacattt tgcttgcaac 180  
 taatgataag ggtttgctat atgaggtgaa ataatttctc tcaaagaact ttgatatgaa 240  
 ggatatggga aatgcatttt atgtcattgg cattaagatc catagggaaa gatctcgagg 300  
 aattttgggt ttgtctcaag agacttatat taacaaattt ttagagagaa ttaacatgaa 360  
 agatgttcac caagtgtagc 380

<210> 22247  
 <211> 508  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22247

cgacgagggt nccnnttttg aaccttagtt agatacgttt gactacgcta gacatacccg 60

ngacactcta gaatactgca tcttagtgct acttcttatac ttttaatcat atgtgctcta 120  
 tatgctgcat gagctacgtt actggtgact tcgtagataa ctaacactca atctcttccc 180  
 tgagtgtatt actaaactcc aggacaaccg caatcacgca cttggaagaa acgaagaata 240  
 tggcgtagca ttgttgttac ttgtgaacat gggacatgca catattagta tgtctaatac 300  
 gcaggaatga taaatgaaaa tacttaaggt gagaggtag attgatcctt tatgcttaat 360  
 actaaataaa gaataacgag tgaatgcgta aggatcgaag attttaatga ttaccattca 420  
 aaagctaatac atgaaacatt aaacctttaa catttatcat atgcatctga acccatgtaa 480  
 gatgtgactc tcgattttca ccattcan 508

<210> 22248  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <400> 22248

tatgcttgag atgaagatgt gtcgtagggt gaaacttctt gcttttattg atgaccacag 60  
 agtggtagct gtagatatgt accgggggtc aggatacctt ggggacgtct tgtggcggtgc 120  
 tattgcccac atgcacgctt gaccaatccc gacccaaccc gggcatagtc cgtcagagag 180  
 aacctgtgat gtacctatgc atgctagctc ctggcagtc aacggatacaa ggaatgcacg 240  
 accaccaagc agggcggtt gtggtggctg tccagctgtg aattgtgagt aatatgtgga 300  
 tcgcggcctc tggtaatcga ctaccaacgg aggggtgatcg attacaaggc ttataaatga 360  
 atacaggagg ctatgatggt 380

<210> 22249  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22249

tgcttgtgga gcttctatgg aggctgtatc tttgagcttc aatggcgctcc tttaatggtg 60  
 attttccacc atggagatgc agcgggaagac aaaggacaat aggtgagagg aggcgccatc 120  
 cattaaggaa taagccatgg aagaatgagc ttcaccacca agatgagcct tggataagaa 180

gcttggagaa gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 240  
cacgaaattg aaggaataaa agaggtatag aagtggaact ttgaagtatg tctcacaaga 300  
ctctcattca tcanagttac aacaagtgtt acacatgctt ctatntatag actangtagc 360  
ttccttgaga agctgtcttg agaaagcttc ttgagaaaa cttccttgag aagctagagc 420  
ttatctacac acacccctct cata 444

<210> 22250  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 22250

agtttttggg tatgaaatct agcagaacgt taattaataa tgtaactgaa tacacttgct 60  
tatgttggac aggtgacaaa caagctcttt cagcttagtt acatatcagg agatgttgaa 120  
aagtttgcaa caaaaatgct gctttctgct gtagaccatg aagtttcaga tacaggtctt 180  
ttgcaatctg gacatactga acaaatagct gaggcagagg tgttgacta tttttctcgt 240  
gtcatttctc taattaatgt tccttgatg aattgatgtg cagagttcta atatattgga 300  
ttgagttatt tgattctgat cttgttgcta cctgtccca gaataatctt gtttctcata 360  
aattctaatt gactcttgct agat 384

<210> 22251  
<211> 273  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22251

actagttgat atggatcttg agtgccaaat taacaaagaa aacgaaatca tatttgagat 60  
aagatctagc ctgcttcatt cattctactt actacatatt tataccgaat attcactata 120  
ttttgactac agatcttttag tacaaaatgg gtgttggcgc ctaaataaat tacntacata 180  
gcggagtggc tacttagctg aatctgttcc acgagctagc ggctcctaac taccttggtg 240  
atagcttttg agctcttcag acgaagacct gca 273

<210> 22252  
<211> 306

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22252

cccacacaag ccgcaaggaa aaaaaaaggc acgacaaccc cnnggagggt tgagctcaga 60  
ccanaanagc ggcgcaggcc cgaccacatt aatacaaaaa caaggggcca cttcgcaaac 120  
accaaggacc agaaaggggc aacgacccag gcacacgggg cgcaaccaa aaaccggcca 180  
accgcacgca gccaaaaacg aagccacaaa acccaaaccg cgaagaccga ccaccacggc 240  
cgccgacacg agaaagacgg gaggaagac cccccgccg ggaagaacca acacaagacc 300  
accccg 306

<210> 22253  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22253

ggggtcaatg atctgtgacc gtgaaccga nccccgaaca accgcttagg ccgacacctt 60  
atggctttgt ccttaagagg gccttggggg acaatgccac atcgccgcgc ctttctcaat 120  
agggctcgcg tcgatttaaa aacgcccga gacagtcaca ccggcggggc cttgaaacta 180  
ccggctgtcc cgagaatagc gtggcccaca gaatgggatc gacttccgaa aaaagcggcc 240  
gggcttcac tgaactgaga gtcttacaac acaaccgggg gctgtagata aacgacggag 300  
agcaaaaggt taggcccgcg gaaccccga cccgtggtct cgcgaactct cg 352

<210> 22254  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 22254

agctttcatc tcccataagc tgttccacct gaaattttga gaacaattag ttaatattag 60  
gactgaagaa agggatgctt actaaagata cattattagt aagataggag taaaagaaat 120  
acaataatga tgagttaagt tactaaatta gaatatccaa tcaatgattc gtattttcat 180  
gtctatagca tacagaatct catagttcag ccgaaattta gttcaaacag taataaattt 240

[illegible]

<210> 22257  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22257

tggatntgca aagaaggagt gttgtagatt tcgcagtttt ggctaagcta aaacttttag 60  
 ctttaaataa ttttcgtcaa acttgggtct gcatgaatta gctcaagcta aacaaaatta 120  
 caacaagctt tctgaagctt aaagagttaa gtctcatatt ggtttaatca attatagttc 180  
 tactttaatc gatttgagac aatgactgat ttttcaagag tctctgggtt aattgattac 240  
 caggtggatc aatcgattac ttctttcttg ttaaattgtt caaagccgaa caaagaacac 300  
 tntaattgat aacttaggtc atctaacga ttacattgtt cttgagtggg tntctagatg 360  
 ttggatgaac actntaattg ataacttagg atatgtggga cactctacaa gttacacatg 420  
 aggaacaac tgatgtcaaa agatctagga taaatactct aact 464

<210> 22258  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 22258

agcttattat gagcacatgt gcatgaagca aagcttgggc gaagccagcc accactagta 60  
 ggatcatgag ttctgcagg gctctcggtt ctagatcttg ggacaatttg atgtattgaa 120  
 tgaaaacatg gacaatactt aacttgtttc agcttcttac ttacagaatc aattgaaaca 180  
 gattggcttt ccatatcatt aaatttagca agaaaaccca agtcactgcc attgtgccct 240  
 ggaaaatgaa gagttcccta tattagaaaa ggtatgctag tacaagacat gtattataat 300  
 aactacaatg caactttgga gacaagctct caccagcaca agtgcccagag ggcagccatc 360  
 catgtttctg cccgtgattt gatagtggga ga 392

<210> 22259  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 22259

nttgctagag tggatgtat aattntgact aatcttatta tgatgttctt gttcttatgg 60  
aatgtttcag gtcattgtat ttgatatgga ggttaatggt gtccattaa aggttagtgc 120  
tttctcacga taagtgcatt ttttttagtt taggttctaa gtataaagaa tataacttgc 180  
tttcttttag ctctgttgct tccatctatg actgggtatg aaatggaaca tgcacaaatt 240  
ccattctcac tttttttcag gcttttggtg atagtggagc tcagtctacc attatatcaa 300  
aaagttgtgc tgagcgtctc gggatgata aagttgttag actggaatag gctttcaaga 360  
catttataat accatataac gattaaattt attaggtggc tcatttgctc gcttatgaat 420  
ntactcgtac atg 433

<210> 22260

<211> 396

<212> DNA

<213> Glycine max

<400> 22260

tgtctatgca agcttataat atatcgatac gctcgaaatt aaacattgga aactctcggg 60  
aaattcaa atgtcataact tttcacacgg atgtccgatt cgggcgcata atatgtcgag 120  
aggctcgaaa ttgaacaacg caagctcttg agaaattaga ctgggtataac ttttcacacg 180  
gaagctctcg tgaagtccat atggtcataa cttttcacac tgaggtccga ttgatgttta 240  
taatataatc atacactcga aattaaacat cggaaactct gtagaaattc aaatggtcat 300  
agcgtttcac acggatgtgc gactcgggag catgatatgt cgagaggctc gaaattgaca 360  
aacggaagct ctcgagaaat tcaaattggcc ataact 396

<210> 22261

<211> 467

<212> DNA

<213> Glycine max

<400> 22261

tgaatcggac atccgtgtga aaagttatga ccatttttat ttctcaagag cttccgttgt 60  
tcagtttcga tcctctcgac atattatgca cccgaatcgg acatctgtgt gaaaagtcac 120  
gatcatttga atttctcgag agtttgcgat gtttaatttc gagcgtatcg atatattata 180



accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240  
 ttgttcaatt tcgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300  
 ttatgaccat ttgaatttct caagagcttc cgctgttcaa ttctgagcgt ctcgatatgt 360  
 gatttgccctg aatcggacat ccgtgtgaaa agtatgtcca tttgaatctc tcaagtgett 420  
 ccgttgatca atttcgagcg tctcgacata ttatgcgccc gaatcgg 467

<210> 22262  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 22262

tttcttacac ttttctactt tcctcaagaa tttcaacctc tttctcactt agacttttca 60  
 gatttgggag ccaagttatc ccttgcggtc tagacttcaa ccacttgtga tagccatcga 120  
 tgacgccatt gctacttccc ctaagctcct tatcttttct tcccactcta ttccatgctt 180  
 tacggatttt ctgaagtatc ttgcgattag cttcattaag acctcgcgcg atgaaaggcg 240  
 tgatgatttc ctccgacggt gcacctctca tagggtagcc taactgtctt atggccagca 300  
 tgggattata attaatacaa cctctcgctc ccatcaaggg gacatttggg aatccctcac 360  
 acgagcataa cactcctacc 380

<210> 22263  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22263

tcaacttatg tgcattgaatt atgtgttatt acgattgttg ttaagaagtg gagacaatat 60  
 ctgctcggtc aacagttcac catttttaac cgatcattag aaccttaagg agctcttgac 120  
 tcaggtcatt caaaccaccag agcaacatat gtatttagcc agactcatgg gttatgatta 180  
 ttgcatccaa tatcggtctg gtaacactaa tttagtggct gatgctttat ctggaagatc 240  
 tgagaaaaca gaaggtagca tggtattatt gtcggtgcca tgcttggcat ttttggaaga 300  
 accgaagaaa caattaactc aggaagcaac tttcattgaa ttcagacaga acataagggc 360  
 ccatcccgaa acattccatg gatattctgt ttcanatagg ataattttgc atggaaattg 420

cattt

425

<210> 22264  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 22264

ttgcttttcta tttcatttca tgagttctat ttatgttcat caacacttta taatgattga 60  
tgccactggc ttgaatttgt attcatttag aaaaactaaa ttgcaacttt cgtatttgaa 120  
aaattaagtt gcaccattta tatccatgtc tgctctgaaa catattggct ttcattctta 180  
catgtgcaat gatgagtgtt gcttatctaa atgatatagt ttctaaacat ataatgtatc 240  
catttgacc atctagattc tgttgtttag ttaattgtat ttatatatttg gtatataccta 300  
actgacattg gtttgtaatt ttgaccgaga ccactagact acactaataa tagtgtctgg 360  
cattacaagt atacgtttgt cg 382

<210> 22265  
<211> 482  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22265

gcagaccggg tgatccctgt gataccatga nccccttgaa ccccaanact cagcgggtgca 60  
agcgctcata ataacgttta tgtcgagttt tacaattggt taagacccaaa ccgcgggtaa 120  
gggggttctta aacgacacta gcgaaaacga gcaacagctc caaccttgat gccctcaa 180  
gctctagatg tggttcagct aacctccag caaccnact tacagtgcac agacctaaaa 240  
tttcgacatg gctgcgtcta atgtacaatt ccgaatggat actatacaca tagtagaaga 300  
gcatgctagg tgtaccttaa aaatcatgat ggttctgcta ccgaatacct tcttgaaaat 360  
agttacaaaa tgaaaattta tccgatggcg tagacaatat tgatgaggag ttttcacaat 420  
aagaatcatt atgcggatca cattcaacac ctatgggctg cttcacaaaa atcgaactac 480  
cn 482

<210> 22266

<211> 242  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22266

caccaccaaa aaaaaacaaa gacaaaaann nggagggatg cctgaacaaa agaccggcta 60  
 acacggaccc ttagagagag ccaggacagg aaaagagcca aaccgagaga aaaggaaagg 120  
 acgcgaacga cagcccgag aaaacgcgca cagcccgaca aaaacagaca acaagcagaa 180  
 caaacgaaa acggcagcaa ggaaaccagg aggcaacagg gaggagacaa gaagcaggag 240  
 gg 242

<210> 22267  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22267

cgctgaacgc ctgggggtcga taccttccat tatcgatact tttagaccct tcacagcgca 60  
 gaactgagcg agatgataca catactgatg acttgtcaac gccaccttta tgggcagcaa 120  
 ccccgatcac cgggtggaaat acgtcttcag cagctcggca atagcgtacc aaacacatca 180  
 cgcatatgat taatgacgac gactgaatat tcaacacgat gctcaacacg tcgctaacaa 240  
 tgcatatccg ggagcgagga tcgccctgct aactcagcat ctctgatcac ctgagaagat 300  
 accccaactc aatcgggtgc ttaacctatt ctccagcgcc gagtgatttt cctcacgttc 360  
 ggctagctca ttaaactgcc catgaggata gccatcctct cacataccac gttgagcacc 420  
 ggtgacagtg actgagatca ttctcaccn 449

<210> 22268  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22268

agcttttttg agtagaaaca tgggaccaac tcattttatt tcaaaaagga agtcgtatcc 60  
 agtcaaggtc tgagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120

gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg tggagtaggt 180  
 gtctgccatc gccttggcct tggctaacaa gcggggaagt tcttgacttc cgttcaaggt 240  
 aagagcaaac cgggccatcc acatggttgc ctcttgggtg aaagagtcga tcacccttcc 300  
 tctagcctct ttttccgcat atacttgagc atactcatcc gcgattctat gctcgtgggc 360  
 cgtggctaga cctaactctt cttggtactt g 391

<210> 22269  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <400> 22269

tttcggttca ttctatgtac ccatgggtggc ccacattgtg tctcgtgtat ttctattctc 60  
 gttgcattta cttgttatcc cccctcttga cgtgcttaag ccattttact taagtcattt 120  
 ctcgcttaaa ctaaaaataa aaataaattt ccaccgaacg tttgaattgc attatccgtt 180  
 aacttcgttt aaaaggaatt ccgaccgttc ggctcgtgccg tagccacgtt ggaaatcgaa 240  
 aagagatact ataatagtat aaataacaaa aatatacctt ttagtaaaat aaagcggaaa 300  
 atcaatcgga cgctatctct ttgggatatc tcattcttaa tcgaattgac taataactaa 360  
 cgtgagacta aggctaaaat caactcgcct agtcgagctc gtccacaaaa at 412

<210> 22270  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22270

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 ngntnngctg agatcatcaa gcggttttat agagacatta taggatttga ttctcagang 120  
 tatntgggtcc gcgcgagga tattattctc tttaccaaca ttatttcaga aatcccaacc 180  
 gtgaaaacgt gaaaatttga gatccataag tggagtctaa attccaggat gatccaacat 240  
 gtaacgaatc cgagatcata gttggactga aacacattca tgtgtatgca aaaaaataat 300  
 gaatcttgag agaggaagga agaagaacca cttcatgagg aagcgagact gtagatccaa 360  
 taaaaactga cctatatgcc tctactcata gttacacgat tctaaactca atacttactc 420

tatcattgaa tcatatcact tgataaaaaa cagaactctc tcttactatg tcttgactaa 480  
acagaccatc aaaacatctg tctacttctg tatcaac 517

<210> 22271  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 22271

agttattaaa gagcaaggaa gccaatcaaa ttaatatgtg gtaaccacgc acataggcaa 60  
taagacatat aaatttatat aaatgttggc tagctaggtt ttggagataa taggatccat 120  
aagcttgtga gacagcatac gataaatcca acatcagaaa ctgaatcatg tttaggaaaa 180  
ttgtataaag gttttaaagt gtggttgtga ttcttgacat tgtggaaaaa tatgaccgat 240  
gatgtcacca caagatgctg tcgcccacaa agcttgatat tgtgattgaa attcctgtta 300  
ctgatatttt tgaacacctt ggtatgaatt acaatttttc aagctagccc aaccaccgtc 360  
caacac 366

<210> 22272  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22272

ggcgccaggg tgagcgggtga accatgaacc tgaanaccga cacaaaacca gcgggattga 60  
attttaaaaa atttgaaata tttgggaaaa cggcttgggg tattgatata ataaaatag 120  
acgatattta agacaaaatc tttaggatat aagtaaatga agagttatgc taatatatgt 180  
aaatgtcatg gactatgtat gttaatatgt agtctttgcy gattacgtac ataatacgcg 240  
tagaggagaa aaaatcctga tgtttttata acaaagtaat aagagctata aatggaaatg 300  
ctcaaaaaac ctctaacatt cgacttgatg catataaaaa cccaaggata atttgctgta 360  
aggtc 365

<210> 22273  
<211> 386  
<212> DNA

<213> Glycine max

<400> 22273

agcttggtt caaacttctt tataataggt tgccaaacac tccagctctt agaagacacc 60  
cctaccttgc aagtattttg ttaaataatg tgattgaagt aaatttttta ttagatttaa 120  
ttaaataaat gtttagtatt ttgttctttc ctattagtat gttgatagct aactggaata 180  
aaagaaaagc taaggctgga ccagttgata gctaactgga ataaaagaaa agctaaattg 240  
cagggaataa ttctgatatc tttttatttc atcattaccc ctttttatag ccatttcata 300  
caagatattt tgctaagttg ttataacaga attttgaaat tgcataacca cacaggtatc 360  
aagtaaaacg tggaaaaagc ttttaag 386

<210> 22274

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22274

tggagtgaac caatataaaa caataaatta tgcactacta tcttcctct ctttgcatg 60  
gttgtgttat aaatatgta actattttca ttgatcttta agacaagaaa atctttcaca 120  
aatatactta aaactgaact cttttgtcaa gattttttca aacaaacaaa tccttttttt 180  
tttaaataga gctctcaact aacaatatta cacttgtatt cccattcat gtgcaaaatt 240  
actaagtgtg aatcaccata attatgagct tactatactc atcttcccaa taaaatattt 300  
aaacccaaaa tcaatgcttc atattttgct tgactatttc agaaatctag atctattgga 360  
ttagaatctc aaaccatgct agtggggata attcttacta tcccaatcct aataacttct 420  
tgtgttnttg atatgtcata cc 442

<210> 22275

<211> 380

<212> DNA

<213> Glycine max

<400> 22275

agctttcaaa cccatgtaat ctctaataat ctcccacact ttgtgggttg ggccattctt 60  
ggatggcctt gatatttctca ggggtccactt ggacccatt tctaccaact acaaaaccta 120

agaaaactat attatctaca caaaagggtac acttctctat atttgcatag aagggtgtttt 180  
 tcctaagaac agaaagaact tgtctgagat gtactaagtg atcatctagg ctctactat 240  
 aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300  
 gatgcataag cctcataaag gtgcttggtg cattagtgag ccctaaaagc atcactatcc 360  
 attcatataa accaaacttg 380

<210> 22276  
 <211> 669  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22276

ggggaccaat gtgnnnnntt tttttattcn gactagctag nngcntgcan tcaanatttc 60  
 nncaaanan anactngcn ananantgnt atnananaga nagaactnga gtagagtgcg 120  
 ccatgtctgt agattagtta nagtngcttt cgtctgcna canaatgatn cgatgcgagt 180  
 gcgcgctaca tggtgattga ctattaagaa cacaatactt catccacgtc gtgtgctata 240  
 naggaataaa ttactagagg ggtaaagttg tggcgactg taaacgtatt cgaatgcggc 300  
 gcctatacat ctggcctgat ataggcgctc tctctgtctg cagagcgagg tctcctgcgt 360  
 tgccttactc agagcatagt atgtggcgca gagagtctag ctcttgttct cctgtagaat 420  
 cgttcatagt gattgtctaa acaatttacc tattgtctta tgtatccatg gcgccaatca 480  
 gttggaaaat ctctcgcat gttccttaat actagtaaat cgtgtgtgtt ctatggcttc 540  
 gtectcaagg agtctcctcg gacacgtgaa acacttctg ccaccacgtc gttcataaaa 600  
 atggagaaac ataacgattg atggcttcta ctccctcact ataccgcat ctaatacatg 660  
 tgtccgtgg 669

<210> 22277  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22277

natgaaccct gattactgct cganancagg caannaaccg caccgggacc tcagagccac 60

acttggccng cgattccgtg aacagaccga ccacagcacg gggcacgacc accaggccag 120  
 cgccgaaagc cggagaaaga ggcaaccaag ggaaacgaga cacagctggc ggcgggaagc 180  
 taaagagagt aatgctgagg aacatataga ctgtacacgt catagacatg tgacataaag 240  
 tcaaagcaca ggaacaccaa cggagacctg gcaaggccgc agcagacacg aaaggccgac 300  
 accagaaaca cgtgcgccag caaggaaccg actccaacca aatcggacac aaccttcgaa 360  
 tatgatacgg aacgcaaaca cgtcgaatag accccacatg gctgatcacg cgatgtangc 420  
 aagcactacc aatatgcacg 440

<210> 22278  
 <211> 156  
 <212> DNA  
 <213> Glycine max

<400> 22278  
 agtcattgaa gatcggcggc aatatcgtaa ccaacatggc aaacctcacc aaatatccac 60  
 cttcatttca gagttcatag caatagaaga aacctcatta ccaatactat cagctctgac 120  
 aacaatttag aaaatattct ctcttccatg acttcc 156

<210> 22279  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22279

gactctcggn nnnttggang cattaaatga ggtcttgcat gcacggcccc gggatcctta 60  
 gaggcgcctg caagctgcaa gctttctaaa cagatctgat ctgaagtctc ggattcgaaa 120  
 acttaccgtg tgtagaaccg aaatcggctg atgaacgatg aggatcgatg aataacggac 180  
 gaataccttt acggatttgc ttacggaagc atctcggaag cgttacggaa gcacctcggc 240  
 tatgatggtc ttcacggaaa aatttttttc acccataaca gctggaatac atagccaggg 300  
 ggctgacgga tccttagaac agcccccttc agcctttcta taagactaag gaggaggagg 360  
 atgccgccag ctgcgccagt cgaacttagc tcgactatgc gagctcngct ggttaattta 420  
 tatgacgcta agcgcagttt gtgtgtaaca acactaacct cn 462



<210> 22280  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 22280

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 atgctggtcc cacaactatg ttagagaggt tttgtagcca tactgtgaca ctttcttaaa 120  
 agtagcccat atgagatcga tgtatagtgg aaactaacac atccatagat attaatttaa 180  
 tagttactat atcgaatttg agactacaaa atagcataat tactcaagtt ttcgtctttg 240  
 atttctcttg tgttctcata ttttaatgtg attgctaattg ttaaaagtga aattgttttc 300  
 atgcatacaa cttatcattt ttcattaact ttccaaaact aacggtcata cttaattctt 360  
 attaatttca actttcttag atgtgagatt gtgtgcatat ggtgatgttt acattaagaa 420  
 tttttta 427

<210> 22281  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 22281

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 cataaaagcg accccacaga actccgcaa aattagggcg accatactct tcttagcgag 120  
 cactcttgac ctctagttca aaggctctca cagcagttgc attctctacc cgaaaaccag 180  
 cacactcctt acggatgtgc gtaacggcca acaagaactt ctccatggca agatacgccc 240  
 ttcttaactc actttcga 258

<210> 22282  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22282

cattcagatg tagtaatgaa ccactaacct agttttaaag aactaagttg ccctagccca 60  
 gggaatnaag ggaacttaat ggatgagtgt aactaaaatt gtggcaacca aaagtcaccc 120

ctaacagcca tcaagccagc caccatttgg tctcccaaaa ggctgatgcc taggttgcca 180  
attgggccct tattacaact agaactaaac caaactaaag cccttatagt tgattaaccc 240  
aaaacatatt tttggtcagc caactttaca aggattgggc cattatttag acaaactaaa 300  
cactctataa ctgatacaaa gtggtgtcat ttagtctcc tccatttggg ccatgataca 360  
actcacaacc ttggactttt ctccttgaga cttgggcttg tattctaata gcatggaca 419

<210> 22283  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 22283

agcatatact taagtgttta gtattagagg ctaaaatata ttctgtacaa tgaatttaaa 60  
aaaaaaataa aagtagtgag aacactaaaa ataatcaaaa ggaagaacaa acataatgaa 120  
tggttaagc caggacccat taaccaagat agctaattct ataattaggt caagattgcc 180  
tatgtgaaat gtatccaggt actcatgact aacaaataga gggatgacgc cccaccaagt 240  
gaaactagat tgataatatg ctcagcacia aagctacatt atctatatat gtgcaacaat 300  
atcaaaataa tatcttttct aaaaataacg aaactctcca aggaacaaga caagcattat 360  
tgaacgcctc cacaacaaca gaccaatcac tt 392

<210> 22284  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 22284

tttatatatg cataaggacc gattgatata taattacaaa atgaagatgc cagttaggtg 60  
gtagatctat tgcactaatc ttactaagga ggcacatcaa cgtaatgtat attggaaaga 120  
ccgaaagact gagaaaggtg tgtactacta ataatactat gggaatcaca acatatgggtg 180  
taaagcattc gtgacatgga ggctccaata tattcgaaat agatagaagt gccagcttat 240  
ctacgcgtgg aatctataat taggcattta ttacttgacc gtggtgaaga caggatatga 300  
gagatcattg acattg 316

<210> 22285  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22285

agctcgnggt ttgctgcagt ctactaatat atggaattac ccattgcttt gcctgagaat 60  
 aacaattggt tgaccacaac agcgctggag gcggcaacgg acaatggtct ttcaaataaa 120  
 cctgttgtag atgaacaaac attatatcat gcgctgaccg tgccaaacga accagcgaag 180  
 tcattgcata attgttacac taactatatt caatgtacct gaacaaaatg atttccaaac 240  
 acgtgaccga cacatatgat gcggtggcca gaagagtcag gtggtggttg acttctaaga 300  
 aggaaaaatg tcatgctttg ttgttgggac aacgatacaa ggattacgtt ataccgcgaa 360  
 gcaatcacat at 372

<210> 22286  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 22286

cacaaaataa agccggacga cagagcccac taaagaaata attccatctt tgttcttttc 60  
 ttgtttcaat gcatgcaagc agatttgtgc attaaattgg ccagtctttt gtgcccaatt 120  
 gaatacatgc atggcttttg gaccacactg tcaatccctt gcacttgag gcatgtaaaa 180  
 ctggtgagta taattcatgt gtttgcgct ttgcagtgac tggataatcg aataagaaca 240  
 ttattaattt agttgatggc actgatcata cagttcttat ttattcatg 289

<210> 22287  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 22287

actccgctgg atgcaacatg ggagagggaa tttatcacga gttgatgcgc tccatgaaag 60  
 gcaggatcgg atggataata gagaacacac tgaagataac aggaggagaa gaggggaatga 120  
 tgggtgtcct aaacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180

[illegible]

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<223>      unsure at all n locations
<400>      22288
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<210>	22289
<211>	417
<212>	DNA
<213>	Glycine max
<400>	22289

9342

<210> 22290  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22290  
  
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 ctgaattccc ttttattgag catgtgatca attcctctaa gtcaaactat ttgacctggc 120  
 cattagtaaa ttttaattgtt gaagcttaga ctatgatgat gtctatatct ccaacgacac 180  
 agaattaaga tacttaccac cactttcttc caacaatata aggaacctcc tcccactata 240  
 tgaggaactt accttaaaat aataggaacc tctcattact atgagtagat aactagaata 300  
 cccctatga accctaaaag ggaacaacac acttttgaat gtcctaggca taagtcacat 360  
 tcatattgtc at 372

<210> 22291  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22291  
  
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 tgcattttta gtttaattat ttattaactc tttttaattg aaaataatat aatttgattt 120  
 aatacataca tgttttgttc catgtaaata ttaatattgn gtgatgttta tatgattcat 180  
 gaggtgtgat aacatgtcgc attatgatta taacattgtg attgagattg ggtgaatgta 240  
 ataaattgag tatgtgttga attgtaagat acatgtgtaa tgagatcttg tacgcattga 300  
 gttatgagct atgaactgta caatcacaca actttaat 338

<210> 22292  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22292  
  
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 agtgggtacct ggagatatgt cacggggggc acgagacctt ggggacgtca ggtgggggtgc 120

tattgcccaa aaccaaactt gaccaatccc gacccatccc tggcatagtc ggtcagtgcg 180  
 aacctgtgat gtacctaaac aggcgagctc ctggctgtca acagatacaa ggaacaaaga 240  
 ccacagagca acgaggcttg tggaggctgg ccagctgtga attttgtgta atatgtgga 299

<210> 22293  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 22293

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 cgattacgat tatgctattc atgattaaaa cagaaagtgt tgacttctga aaaaatttta 120  
 ttttcaactca cacatgatga tgcgatgatgc acaaatgata tgatatagac taagatgcac 180  
 cattcaatat aacaaccaat acaaaagcca ctctagatag ttggacatgt aaaagacaaa 240  
 actttctcaa gctcttcttc aagctgtaag attaagtctt catgttgctc atgttgctcc 300  
 ccctatatct aacacctcca aagtcgcact cttgtttaat agcttcacat ctcacgctg 360  
 ctttctctaa tttccttctc ataggcctaa ttgggtgcag ctctc 405

<210> 22294  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22294

caactctccc atttagagga agcttttgga gaaagaggag accatatttt tcttcttctt 60  
 ccaagtttta ccaagtttct ttgagccctt ctccatcaa gcttaagtaa gtgacctcca 120  
 ttttcaactc taaacttgat tttcacttca ttntcttget ctattctcac ttgtagtttc 180  
 aaaatcttat ttttcaactc tgaaggttgg aaacttgaat ctgaactccc actcttttcc 240  
 ttctaaattt tgttgagtct acaagggata aggggagctc ctccaattat tgaaccatat 300  
 gcttggtggt gaacttgctt gaacatgttg atttgaaatt ttgagcttg ctgtcatg 358

<210> 22295  
 <211> 402  
 <212> DNA

<213> Glycine max

<400> 22295

tgaagggtgcg taccctcacc attttatata gaaatctctg gtaatgtgtc tactattatt 60  
atgatcatct ctttatccgt cattggaggt gccacttgag cttgctaggt ctctccacct 120  
ttgggcttat tatttgaaag attcgtgccc cttttgtac atgttctgta gttgtatcct 180  
atccagagcc atatcagaat tgtactgata ttgcctaacg atggcaaaca ttaggtcttt 240  
ccaagaatgg attcaggaag gttccaagtt agtttaccag gtaccccagt aagactttct 300  
tggaagaaat gtatcagcag ttcctcatct tttgcgtatg ccccatctt ccaacaatac 360  
acctttagat gggtcttggg gcaagtagtc cccttgtagt tg 402

<210> 22296

<211> 374

<212> DNA

<213> Glycine max

<400> 22296

agcttgaagt gagaatgtgt gttaagtcag tcttctact tttatttgtt gaccatagag 60  
tggtacctgg agatatgtcg cgggagtcag gagaccttgg ggacgtcagg tggggtgcta 120  
ttgccccaaa ccaagcttga tcaatcctga cccaaccgg gcatagtcag tcagtgagaa 180  
cctgtgacgt acctaaacag gcgagctcct ggtagtcaac caataaaaga acaaagacca 240  
caaagcaagg aggcttgtgt ggtggctggc cagctatgga tcttgagtga tatctagaat 300  
atggcctctg gtaatcgatt accaaggggtg tgtaatcgat tacaaggctt aaaaatgaag 360  
acagaaagtt aata 374

<210> 22297

<211> 418

<212> DNA

<213> Glycine max

<400> 22297

agctcgaatc ggacatccgt gtgaaaagtt atgagcattt gtttttctca agagcttcca 60  
ttgttcaatt tcgagcatct cgatatatta taagcctgaa tcggacattc gtgtgaaaag 120  
ttatgaccat ttgaatttct caagagggtc cggtgttcaa tttcgagcct ctgacatct 180

tatacgcccg aatcgaacat ccggtgtgaaa agttatgacc atttgaattt gcaagagttt 240  
 ccgatgttta atttcgagcg tatcgatata ttataagcct gaaacggaca ttcgtataaa 300  
 aagttatgac catttgaatt tctcaagagc ttccgctgtt catttcgagc cttcgacata 360  
 ttatgcgccc gaatcggaca tccgtgtgaa aagatatgac catttgaatt tcgcgaga 418

<210> 22298  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22298

atcttcaact tcaattatga gttgagcagg taaaaaagat tcgtcttcaa actcttagag 60  
 gtgactctga gtgtttgttt atggaggagt ccgagtcaat ttatgattat ttttctcgag 120  
 tattggccgt agtcaatcaa cttaaaagaa atgggtgaaga tggtgatgag gtgaagggtta 180  
 tggaaaaaat acttcgaact ttaaatacaa gttttgactt cattgttacc aacattgaag 240  
 aaaacaagga tttaaagacc atgactattg agcaactcat gggttcctta caagcacacg 300  
 aagaanaaca aaagagaaaa attaaacaaa aggaggctac ggagcaacta ctacaactca 360  
 acgtanagga agcaaactat gcc 383

<210> 22299  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <400> 22299

acatgaacac actttacatg actctggaac ttattgattg catggatgct tctaaccaga 60  
 ttataacaag ggtacaaggg tgaagagagc aacagccatt attcactaga tttgtaccaa 120  
 cttgggaatc aaaataaatt ctgatccgtc tatgtcttct atcccaaacc atttgaagaa 180  
 caagcaaata tggcccatta ctctgctgcc aaattcgtac atataccaag ctttgccgca 240  
 aatccacaaa taaagcactt attagtgtgt ttgttgacgt ttaaactgtt ttcctttaa 300  
 agaaagtaat tttctgtttt aatttgagaa aaaaaatata tgcttataaa taaaacattt 360  
 tttaagaagt atttttctaa cattactt 388



<210> 22300  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22300

agcttttggtt aaagttttca gttctcctga gcgagctagg ttacttttgg aggaagcaag 60  
 tagcttacct gggcaagcta ctatgcaacc tcctcccctc atttcctata tataggcgtg 120  
 agggggcgac tgaggagaag ggtccaacac ctaaaataaa gagattttga gtgaaattag 180  
 tgagaagaag gagaagaag aagaaaaaac aaggccgaga cgctttcgta acgtttctgt 240  
 gattgttctc catcgttctt cgtctgttct tcgttcgttc tttattcatt gaccgggttag 300  
 tctttatttt tgaagctntg aattcattct atgcaccctt aggggtccat ccttgctttg 360  
 atatcttcat cttcattctt cta 383

<210> 22301  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22301

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 ggagttcgac agtcaccgct ttaggagcat tgtgcaccag cagcgcttcg aagccatcaa 120  
 gggatggtcg tttctccggg agcgacgct ccagctcagg gacgacgagt atactgattt 180  
 ccaggaggaa atagggcgcc ggcggtggcc accactgggt acccccatgg ccaagttcga 240  
 tccagaaata gtccttgagt tttatgccaa tgcttgacca acagaggagg gcgtgcgtga 300  
 catgagatcc taggttaggg gtcagtggat cccgttcgat gccgacgcta tcagccagct 360  
 cctgggatat ccgatggtat tggaagaggg ccaggaatgc gagtatggcc agaggaggaa 420  
 cc 422

<210> 22302  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 22302

tagctttatn aggcatagtt gttatcctcc gactgatccc tagagtgtat cccgtatcat 60  
catttttagc actttataac tttatgttcc ttagcatttc agacttcatg cctatgggta 120  
tttaggcttt ggtacatttt aatttttggt acattacctt taaactattc tggttgaatg 180  
tttaggactt ggtactttca attattatta atctttttat ggcactacta tattatttgt 240  
ttaggacttg gaactttaaa ttatttgaag tcttgtgtat gggttttcta ctccttcctt 300  
gtttttgatg ttgccaaagg gggagaaata gctaaaaggt aaggcgattt ttttgttgga 360  
attatttgaa catatattct gaa 383

<210> 22303

<211> 398

<212> DNA

<213> Glycine max

<400> 22303

tgaacaaaa ctggtgagag tgtgatctta cactgtgtgt gaacgtttat ctatgagtaa 60  
taatctttgc atgaatctct gaattttaga atgaaatgta taaatgagga catgatgaag 120  
gctatgattg tgcataatac agccttttga acaaaaagct taccttgaat tataattgta 180  
tcctctgcac cctttatgag ctgaatgata ttgtcaaaaa tttgaaccct gaacttaaat 240  
aattatctct agataccttg tttagattct aggagagcat atgggttcaag gaaaatttac 300  
tccaactttg ggggagtgga actaatttgg atgcaaagaa agagataaag catcagcaca 360  
cacaacacat aagttgtgtg ttaaaaaaag aagaaaag 398

<210> 22304

<211> 386

<212> DNA

<213> Glycine max

<400> 22304

agcttcttgc gtagcctctc tttgtgctca gaaaatccca aaaacaaatc cctcttatta 60  
ctagctatnt tgaattcttt agttcctgaa tgtacaacct tcaaattggt gctcgttccc 120  
ctctttcttt tttgcaaaaa agaaaatcaa tatcaaagaa aacatggatg aagtcataag 180  
gatgccatgt acatgtgtat ttctgaagat atagtattta tattccatca agcatacatt 240

gactgttgat tacatgtaat agacttttta taacatgggt gccccaagtc acaattaaaa 300  
 agcacaaacta ccaatctttc ggagtccttt ggtaatttg tcttgctctc ttatgtggtg 360  
 gggatgtgta taataatatt atactt 386

<210> 22305  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22305

agctcncaac ttacttccaa tgaacaacct tcttggtaca ttatttgaaa tctttgaagg 60  
 taatttaatt gtcaattaca aaagtacata aaggctctca attttggtgg ttgctctctc 120  
 tttgatgatt cactcaattt ggagtgcttc ttagttcaat agcttttaag gtggttggcc 180  
 cctcgcttct tgattgaaat tcttcaatgg atgacatcaa tcctccttcc caattcccta 240  
 tatggaaact cacaaacaag aaaacaaaga gacaaacaat aaccaagac caaaaaatta 300  
 aatgaaagct aaaccaataa atttttaaca agaaaaattt tcaaggatta ttcgacaatt 360  
 aaagcaatga aaaggacata gaagcaagct aggactcaaa gagaaactta gaatgactct 420  
 agagtag 427

<210> 22306  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22306

agttcntggt gtcnncncaagc aaatggttga agaggggtgta acgcctagtg ctccaacttt 60  
 tgtgagtggt atagatgcct gtgcacagga tgcgcttata cgaagaggta aacaggtgca 120  
 tgggtcaaatt attaaagggtg acaaaagtgg taacttggtt aatgtgtatg tgtgtaatgc 180  
 tttgattgac atgtatgcta agtgtggaga tatgaaatca gctgaaaatt tgttcgagat 240  
 ggctcctatg agggatgtgg taacttggaa cacattgatt actggggttg cacaaaatgg 300  
 ccatggagag gagtactggt ctgttttcac aaagatgata gaagccaaag t 351

<210> 22307

<211> 521  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22307

acccccacccc tccccgcccc ggggaacggg caataaactg tcgcatccnc ccnncccacn 60  
 cccggcgcggt tgaccttgag cctggcatac cggaccnaca ccaccggcca cgagagaaaa 120  
 gaaagagcac acttctcnac atctttgcna ncatagctta gccagagacg atgctatcta 180  
 aatgttagcc taggcagatc gtattctata tagattctaa tcgtccagat ttatgcatgc 240  
 tagcggatca tatccagact ttattcgatt tcatttacgg gctctgactt ataatagaac 300  
 tggaagcttt ggggctgagg atctatataa cagcacccat gttctagtgt agagagtttc 360  
 ttctttcgga gagaagaact attgtaggaa ttgacgaatt caatgtttat cactgcgcat 420  
 gccactatt cacgtagaat acaagtcact ttctgggaag catcttttat ccatacattt 480  
 tttaatacta tgctctttgt aatctcctgt ggagtactgg n 521

<210> 22308  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <400> 22308

agctttgttc ctcatcgggc ttgctatta aaggctctga acgaagctca tgtagctcga 60  
 gacatctccg tagaaggctt tgggggactc gtcaataaca tcaccgcca cgactatctc 120  
 gcctttgctg aagaagaaat ccccgccgag gggagagggc ataacagggc tttccatgtg 180  
 tcagtcaa at gcatggacca cgtcgtggcc aaggctactca tcgataacgg ttccaattta 240  
 aacgtgatgc ccaaagcac gttggagaaa ttccggttta acgcttccca tcaaaggcca 300  
 agttccatgg tgggtccgtgc cttcaacgga agccgccgag aggtgagggg agagattgac 360  
 ctccctgtgc a 371

<210> 22309  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 22309

aatcattaca aacaaaggcc atacaggact tntgatggca cgagtgtcaa catgcacttt 60  
attaaataat catattggag tcgagctatt ttatgacaca tacgtatttg cacacattac 120  
aaaatcatgt gtgaagcatt ctacgacacc tatccatgta catatTTTTat tgacaaacct 180  
ttccatgcta catcctatat atatacacac atTTTTTTTTg gaaggcttgt tttggtacct 240  
actcgacaat acacatattt tgaaaaaaaa cgTTTtacgt acccattcaa cactntgtga 300  
ggcacttcat gctatatata ttcatagtat gcanggcatt ttcattgctat atatataca 359

<210> 22310

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22310

agctcngtg aagaganaga gagacaaaga ctcagaaatt gTTTTgcaat tgtctatcca 60  
ctaagcacag accttgcgct aagtgtcag acttcacgtt ctaagccgag ctgctggcg 120  
ctaagcgcac aaaccctga ttggttggt gaatagttca gctaagcgca catcactgcg 180  
cgaagcccta catcttcacg ataattgaac cttaaccagt gggcttagcg tggatgatgt 240  
gctcagtgcc acttcttctc tggaaaattt ttattggagc agcgctaagc gcgctatcct 300  
gcactaagcc ctatgccat tctgtaactt gagtttgtaa gctgggctta atggggcaag 360  
aagtgc 366

<210> 22311

<211> 406

<212> DNA

<213> Glycine max

<400> 22311

gaaactcagc ttacaaatgt ttgaatccag cccatttgta cattattcaa atctagataa 60  
gataagatag gagctatatt aaataatatc tagatgagaa atgcaaactt agataagata 120  
agataagatc tagatcaaat aatatctaga tgagaaattc aaatctagat aagatatgat 180  
aaagataaga tatgataaga tctaattttg tagaataaaa tagtctgccc tcttcaagtc 240  
caagctcaat tctggattca agcccaagcc caattctgga ttcaaacctg tcataacccta 300

attacgtccg gggacctttg cttgatgaca tgcgaccttt ctttggtcct tgagaggcgc 360  
 ttgacatcca tcattgggca atttgtgaaa ttccaggaca tgccga 406

<210> 22312  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22312

tctgcangca agcttggata actnnnnnna ngggagatng atgcatatct tactaattat 60  
 gttaaaatct tgttttctct tcttctgcat tgtagttaaa ttaaactatt atgtgaaagt 120  
 ttgggtccatc tgtgtttcag ccttgcttca attactttct ggggtgtagag ctatcaaggt 180  
 caatggaatc tatttaggaa tattgtttaa cttctacatg attaagttat taaaaatttg 240  
 cactgtttga ttgtttaaag aagggatata tatgggtgctt gngagcaata tcttggactg 300  
 gaacacgatg acagtgtctc aaaaaagtcc tatgcagtca accaggtaaa tattgaggat 360  
 tagtttcttt ctttccttt 379

<210> 22313  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22313

ctaagcttgt ggaagccttg agcaacaaac tgttgggttt ttggcaagct ttgaagaccc 60  
 agccatcgta aaaaaaaaaag gtatgattta tcattgtttt gtttgcagta gtggccatgc 120  
 tctaacgagt gcgtacaaa gttatcttca gttgatctaa catgttttgt ctgtggagca 180  
 ttgattcttc aagggaatga atgggtgggg acccttgaac gtagtcaaga agggaagggt 240  
 gatctcgaca atacaaagca cgaaagggt aatgttgatg gccgaatggt aggaagaatt 300  
 gtaccaatat ttgacgaggt gaaggactt gtaccaagat catggatggt ctccaacaaa 360  
 acatctcaat taaacctcan aactgcgatt agtgacttca gtttgggtgt ctaa 414

<210> 22314  
 <211> 387

<212> DNA  
<213> Glycine max

<400> 22314

tttgcattgca agtttgtgag gatgctttaa tggaggaaaa gaaagagaga agggggggagc 60  
acgaaattga aggaataaaa gagggaaaga agtggaactt tgaagtgtat ctcataagac 120  
tttcattcat caaagttaaa acaagtgtta cacatgcttc tatttataga ctaggtagct 180  
tccttgagaa gctttcttga gaaaacttcc ttgagaagct tctttgagaa gctagagctt 240  
agctacacac acccctctca taactaagct cacctccttg agaagcttcc ttaagaagat 300  
tcctaaagaa gctagagcta cacacctttc taatagttaa gtcacctcc ttgagatgag 360  
aagctagagc ttagctacac accccta 387

<210> 22315  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 22315

tcttttctgg aaaattcctt ccctgattgg tgttctttat ggtattatgt gttggagttt 60  
gatattggat gtgttgtggg tggatgttgt ggccgattta aggggtggcct ttgttgttga 120  
ctgggtgttc ttggttggtg ggtggtgggt aatgggcagg actgacattg gcagagtatt 180  
gatattgctt ggaagaatat tgcgtcatat gattataatg ggctagtgga aagttttgcc 240  
acttggaac tgcaaccact acatgagggt ctcctttttt ctccctttcg caattcctcc 300  
caactgtcgc attgtcatga attacttgaa tatgggttatt tatgttgata ctagcttatt 360  
tattgttgaa gcatgtatgt ctctgcatta gtttatggat atcttg 406

<210> 22316  
<211> 336  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22316

ggaaaccaag ggggatgaaa antatatnan caattnngcc agncgttaat gttgaatcat 60  
agntttgctc tctcatctgc cctttgtctc atctctttac cttacaactt agtcaattct 120

atcattaccc tttttcaata tgcagaatca gcaacatgca aacatatcta atccagcaaa 180  
 tgccaccatc aatagccacg ctatgggtcca gaaccaacaa aatgectcat gtcccatttc 240  
 tttcatcttc taaatttatt gtagcttctg cagatttaaa agaagcatcc ggttcttcat 300  
 ttcaacatga atctactgtt tagttcataa ttcact 336

<210> 22317  
 <211> 235  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22317

tggcnttgaa ataaaaatnt gtaggtgtng caagggtttg tggtagtgc ttatntgntg 60  
 agaaanatat agaactttgn tnttatatgc agcaacctgc agcaattgac cagcctgaag 120  
 cttactgctg ccatatttac aatagacctc ctcaacctca gcagcaaaat caaccacagc 180  
 agaaccattg tgacctttcc cgcgacagat acaacctgg atggacgaat cacc 235

<210> 22318  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <400> 22318

taatctgatc atttttatat catttttaca ggcctattct tgttaaccat ggcgagatta 60  
 tgatgacgct tacgagcgca cgggtgcctaa ctcatgaact aggtccagag aactagaggg 120  
 cacacttgat actaccatgc ttccactcaa tgacgttaac tgttcacaca catgaacgat 180  
 acaggtgaaa gactgggaca cattcggaaa gcaaccaaga gcagtagcta ctggatcatgg 240  
 gagacttaag aaccacttgg aacatgtttc tgaggagaca tcaggggcca gtactaaagc 300  
 agaaggactg aagaaagaca tgataaagat cattgacctt cctcaaacag acacgggaaa 360  
 ttccttgga tagatgatat acaagggtcca ca 392

<210> 22319  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <400> 22319



agcttctatc ttcattatta gttatgaata caagcatctt gctctttcct attttttttt 60  
aatcctaaat tagattagag accacgaccg tccatcaatc tatttggtca aaaattaatt 120  
tcaactcaagt taatagttca atatgttttt tatgctaact ctttttggtt ctcaaactta 180  
gtaatgactt aaggaaaaaa agttgaccat tgttataaga tgattttaag tagccaaatt 240  
taggcacccc atccatgtgc tgggggttag cttctgttc ctttaataaaa ttattttctc 300  
attaaaataa ataaagtcac gtgaatgtta gtaataaat tgagataata ttttttagaga 360  
attataatat ttaatattat taatata 387

<210> 22320  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 22320  
tatcagaaac cttttggaga ttgaccaat ccattgatcc cttggtatat gattcgggtct 60  
gtgtttcaat aaggatgtt tagtcttata ctttgtgaaa tacatactcc ttaaatcaca 120  
tttgtagtct ttccatttct ttccaagtga ttttttgaca aattccacac cacgttccgg 180  
gatcgagaac ttcttctaca aaaacacaac aagctgtaac aatgtcatac catgcatgat 240  
aaaaataaat gaaaattacc acattaagaa aagttatttc ataccctcac aagatccacc 300  
aatttatttt tttcttcttt gtcaaaacat ctccaatcgt ctatgtttaa aggtgctaac 360  
tctggatttc tagctataat gcttagaaag ctagcaagct ttc 403

<210> 22321  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 22321  
agcttggaaac gtgcaattcg gtggctgaca ccttttctca catccttgac ctttagattt 60  
caccatatgt cactttatcc atgttgaact tcacattctt agatcagttg caacagactt 120  
tgctagctag ttctaagttt tgtttcttct ccaacaaatt taggtaaacc tacttccca 180  
taagaatatc agcattagtt gcaaactcat tttttaagg caaaatatgg ttgaactcta 240  
acaaccatt ttagaccatt ttgttggaag agttccataa aactccattg ggtgggcact 300

tgggtgtagc taagacatcc cataagctgc aacaaaagtt cttttggacc aacatgcgtc 360  
atgatgttaa actctatggt acaa 385

<210> 22322  
<211> 472  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 22322

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attagggtag aggatttagc atgtttacag aattccagag caagtatacc atagtgctaa 120  
ttttgagata aaagctctgg aggcagcaag aggagcaatt ttgcggagaa gcctagggtt 180  
cttcaattag agagagatta gtgagctata gagggtgctga gaagaggagg 240  
gatccccctt cttgtgtaag gaacaattat tttgtactgt taatctcatt tgtgttaggg 300  
tttttctgta atggctggct aacaccctt gttggggatt tctaaggaa aactgatgta 360  
attatttttaa tatctaatta attgtgtttg atgtgtttag tgcttctttc aatgcttaat 420  
ttcgtcatgc tcttagtttg atcaccatt tgtgtgtaca gttagggtgac tt 472

<210> 22323  
<211> 240  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 22323

aacgggaaga agaggcgagg gaaaaagcac aacaaaaccc cccgccaacg agagaaagaa 60  
acaaaccag cacaggagca aggcgccaca aaccaaacag aaaacgaaca gaagggccaa 120  
aaaaaaagca ccaccaggca aggacacgac aaaaacaggc agacacngca cacaaaagca 180  
caagaagaca aaaggacaaa gcagaacagc ggaggcaccc caaaggcgga accgcaacac 240

<210> 22324  
<211> 410  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 22324

agcaattctt agagaatcgg catgatatgc gctctaaata caatatccgn gcnatttttag 60  
acgcngcatg taacttggatg gctaagggtgc caatgacaag aaataaaatg attttggctca 120  
acattcaaaa tgatgtggca caatatctcg agatgtgcta caaggatgca tctcggcttt 180  
ggcatattca atttgggcat cttaattttg gaggattata gtttctctcc aagatagaaa 240  
tagtgagagg attgtcttgc aatagtcacc ttgatcaagt gtgtgaagga tgtctacttg 300  
gcaagcaatt taagaaaaac atttcaaagg agtctaactc aagagctaaa aaattgttgg 360  
aacttatgca tatagatgtg tgcagttcta tccagccgta gtcacatgga 410

<210> 22325

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22325

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caaaaactgc agcataatgt cttgtgggtc tgtgggttctg aagaagcttg gtaaacttca 120  
acaaaatttc tttgacgcca ggtaaccaat cgatggcagt ctccaaatag ccatttggtta 180  
tatcagtcga ctctgcaagc ataggcatgc aataaattga gtgcatttat gaattcatgt 240  
tatatggaaa atcacgttgc aacatcagtt agtataatat ttatagatat cgtctttaat 300  
ttcatgttaa gaaattgatt ttgaatacac ggtcaatttt gagttcaaca aaaaaaaaac 360  
atcaaaaaat aaattacttt act 383

<210> 22326

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22326

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tatggagtga tcttgatgca gtcaaattaa gcaatgccta taatttggtta tttttgatag 120  
acaataccta caaaacaaac aggcacatgt caccattact tgatattggtt ggtgtgacac 180

caacaaggat gacatcatct gttgctttta cctatttggg gggagaacat ctgaataatg 240  
 ttgttagggc tctacaacgg tttcaaggtc tttntcttag acgtgatgca gtcctttgag 300  
 ttattgttac caacaaagat ctaacattga tgaatgtatc gaaaaatgca ttccttaagg 360  
 ttaccaatta gttgtg 376

<210> 22327  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22327

agcttgtggg atngagttaa gtttcaaat ccgtgcctcc tccaaagcga acaggggtgga 60  
 ttggaagagg aaattgtcac atggaaaagg ccaccataga tctgaagcgc gatggaaagg 120  
 atctgaacgg tcgcggtcat caactcccct gctgcgtaa gcacgactgt cccgcctccg 180  
 tttcccacta tttcaaacc taacacaaat gtgttgggga agacgagggt ttaccgttac 240  
 aagagggtca ttttagaggc aggttactcc aaggaacaac actccctctt ccgcacgggt 300  
 actctggtac gctatgcctc tctcaacaca cgcattgtcag tgaatgttat ctgctcctat 360  
 gtatatgtgt gtgtatgc 378

<210> 22328  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22328

catctaagct tcaacgatga aacaaggctc acttacagtg actgagtttt tcaactcgtct 60  
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 caggtgttcc tgcaacgcat tcaccattat cgcgcaacgg aagctcgagg atagagccat 180  
 gcagttccta cgaggcctga aggaacaata tgctaataatt cgttctcatg ttctcctcgt 240  
 ggatcccata cccgctatct ccaaaatatt ctccatgtga gctcaacagg aaaggcaact 300  
 actgggtaac accgaaccag gtattaactt cgaacccaaa gatattctca ttaacgctgc 360  
 taagaccgtn tgcgatttct gtggacgcat tggatcatgtg gaaagcgcgt gttataagaa 420

<210> 22329  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 22329

agcttgcact tctcaaagaa gtcaacaagg agatcagcag cacggtcacc atggtaaggg 60  
tcaatgtgga agccagactt gccatgcaca atgatctcag caggaccacc attgcatgtg 120  
gcgaatgttg gcaaccacaca agtcatggcc tcaaccactg tcaaaccaaa agcctcgtat 180  
atagccggct gcacgaaagc tcccttggtg tcgcagatca cacggtagag ctctccgttc 240  
ctcacacggg tcatctgaga tgaaatccat ctgaattgcc cgttcaactt gtaggtctcg 300  
atcaggccgt acatcttctt catctcggcc ttctcttcca agtccttcga ctcttctctc 360  
ctgtctccgg caaca 375

<210> 22330  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22330

aactaacgct gctctaattcc ccgcaaaaag acgatcattc cagctctacc agcgaattct 60  
tcaaattgcaa gtaacctttt cccagtgtcc cccacaatta attcatagtc atataacgat 120  
gccctctcag ctagaatcta agattatgga aaataccaaa agcgagttag aagttgcaag 180  
aaaccaccac aaaatcgaag tcacatttca agcatttaag tattatatat acaagtatgt 240  
aacattaaca caccttatcc agcaaaggca tgttatcttt ctgtgctnta tgtgtatgtg 300  
agaggaaagc ataagctcta tctggtaata tcatctacag ctgcac 346

<210> 22331  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 22331

agctcccttc ttgtgagtgc tttgtcatca aagccaagg tagccaaccc aatcttcttc 60

tcttcactat attcatgaca tgcaaagatt tgggtcaactt tcatctccca cacaagatat 120  
gcctctgggt catgcttcat ttgaaaatta ggaattttat gcttttcccc tcccatatta 180  
tctcttttat tattatTTTT tctctctatc tcttctctt taactcccta tcccatgtcg 240  
cctaagcctc atttctcctt caaataagat gaataatgca ttcttgcaca aaatgggttag 300  
cacaataat ataaatatgg accttaccat tcaacttagt gtttcaatca aagtccactt 360  
gtgtctctct ctctct 376

<210> 22332  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22332

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tctagcttct caaggaagtt tctcaaggaa gctttcattt agttagtac gtatgctata 120  
aatagaagca tgtgtaacac ttgtcataat tttcatgaat gtgaaactta tgagatgcac 180  
ttcaaagtcc aacttctctc ccttttattc tcttcaatt tcatgcccc cccctctct 240  
ctcattatTT tcttccattt aagtttctc tctaagcttc ttatccaagg tactctcttg 300  
gcggtgaagc tcttcttcc ctggcttatt ccctagtga tgggcctac tctcacctat 360  
tctcttttat cttcagctgc atctccatgg ntgaaaatca ccattg 406

<210> 22333  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 22333

tgggaccgtg gtcccagtct gattatcatt ctgcagcatt ttagtgggac cgtgggtcca 60  
gactaataat cagaccgacg atacgagtgg gaccgtggtc ccagactaat aatcagaccg 120  
acgatacgag tgggaccgtg gtcccagtct gattatcaga ccgacgatac aagtgaaca 180  
gtgggcccag agagaatatt caggccagtt atgctttctg gcctgtaaca aaggacatta 240  
agtaaagaca gataaacgta gactaaaacg tggtcgcac aggggtgctgg cttttcaagt 300

tccttaagaa tggcctcaat tttctctata cactcagttg gaacacgaga cctgtccagg 360  
 ttaagcacca ttttatcgcc cttatacaat actgtcgctc caggagcaaa ctgatgtcg 419

<210> 22334  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22334

ctcgacccgg gatccttaga gncaccttta gcatgcaagc tangttctat gaacggaaca 60  
 aacccggaga gatgacggaa acatgaaccg cacaccaaaa agaagagcga gtccaaagac 120  
 ttcacagatc gaaataaggg taaattaaac aactgagtta gcggcttaac ttataaaaat 180  
 cattggctga tgtacgaaaa taatactaag tattgacatg taagaagaag agtgctatga 240  
 gtacactata gactggaact agtctcttta accatgatgc tccactgcgt ctcagtata 300  
 tcttaatgat acttatgaca atacaaattt gaagcgagag tatgaagtat agttaagat 360  
 ggggtagtat ctggcta 377

<210> 22335  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<400> 22335

ctactatctg tattgcgta ctactaaatt gacctagact attggtataa aatataaatg 60  
 accattaggt atgtgctatg ttggacatat caatatcaac ctctgtcat gttgacctac 120  
 gggctcctaat tctcctttc tcagcctcta actatatcac ctactataag cgtatgaggc 180  
 caaaactgct tattaacat gggctacaat accatttgca tcaggaactg gttaggcctg 240  
 ttaattctgc aatcatttcc aatacagaag atatacccaa atgctaacaat gatttgat 298

<210> 22336  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22336

agcttgtata tgaagcttgc agaggaagtt agagaaagaa agagatgaag gaagcaatga 60  
 attgcataga atgaatcaac ttacaaagtt agtcatatta gtttgttata tagttagtta 120  
 caagagtaac taagttataa ctaactcatt aactcttggt acatagagat tagccaacta 180  
 aaataactct agttacataa taatctatgc taagaacacc tcatttgggt tttgtattta 240  
 ctcatgggta cggtttagcat gggaaaggta aacaggtctc ctatcatgaa aaaaagttgt 300  
 tggactatcg gatttttttt ttttactttt gaattanagg ctaggatttt ttttctcttt 360  
 tatctttgta ttttctat 378

<210> 22337  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 22337

gacctataaa actcaagctt atataatcat tgaaatcaag ctttgtgcca atctcttatt 60  
 aaccaatgtg agattctttt aacacataaa ctaaactctt atctaactct tgatcttagt 120  
 ttcttgatct tgagttaaag cttgaagcaa ccttgggttt tgacatcatc aagacctgta 180  
 tacatacatt cacaatagtg ttgtttgggt tttccacttc cttttgtgtt gcatgtgtgt 240  
 tgtctaataag cttttgtgat tcatgagttc tttgggaagc ttttcgaggg agtttaaggg 300  
 gccaggttct aaacttgtag tcgtgttggt tgacaactta gagtttattg accttttttc 360  
 aacatatact gattcggcct tcttatctag tgtcgagaag ggtccgatg atgactgagt 420  
 gttg 424

<210> 22338  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <400> 22338

tctagtcttc ttcacatagt ccgcctttgc ttgaccttct ttatgcttaa aaacagaaac 60  
 attaggcata ggcaaaagat caagaggagt tagtgggtta aaaccataaa caacttcaaa 120  
 aggagaacaa ttagtggtgc tatgaacagc tctattgtaa gcaaattcaa catgggggtaa 180  
 acaagcttcc caagttttta agttcttcct caaaactgtc ctaagcaaag ttcccaaagt 240



cctattaaca acttccgttt gcccatcggt ttgtgggtga caagtgggtg aaaataacaa 300  
 tttagtgcc aacttgctcc acaaagtcct ccaaaaatgg cttaagaact tagagtcctt 360  
 atcactaaca atgct 375

<210> 22339  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22339

natgaccccc tactgagacc tcagattant cctcngacc nccaangacc ctatngaata 60  
 ctccagctta taagaacaaa attgtctaaa tcttattcaa agatgcgtga gaatgctgaa 120  
 gcatcctcta ggaaaaatcc caaggaatcg tgcattcaat taatggcgta aagcacacca 180  
 taagagcatg tgtaacgatg gccctaattc tcacgaatgt gaacacataa gttatgcact 240  
 tctaaggaca cctacaggac caattgttga tccacagaac aaagacgcca gacatttcta 300  
 ttattaaatg aatcacacaa tatctgaaca ctaaccctta tatccaaagt actctcttgg 360  
 cggatgaagct cctccttgcc tggcttattc cctagtggat ggcgcctact ctcacctatt 420  
 ctgctttatc ttcagctgca tatccatggt tgaagatcac cattgagaga cctcattn 478

<210> 22340  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22340

gcaattcagc tcgtaccggt gatccttaga gttttctgcg gcatgttatt tgctgcactn 60  
 tgaaatgcc tgcaatatct tgagagctgt agctgggtata tcaaactctg atcgacttcc 120  
 aacaaagatt aatttaattt tatgggtgggt taattgtggc tgccaatagt tggattaatt 180  
 tgatccatct ctttatatac tatctgaaat gtaggtgtga attcaagaat aaccatggta 240  
 attgggttcg tgaagtcaaa cctaatttat gtctgaaat tgcattaagt gtggaaaaag 300  
 ccttagagac aaacaaatga agagaaagtt aattgggtatt tgcatttcta taaataagaa 360  
 actgcgagat tcttttactg atcttcttgn ggtgttattt ctctctgtca tacaca 416

<210> 22341  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 22341

tactaccaca ttcatggac taaatccatt tcaagattac attgttgtgt cctgagacaa 60  
 aaagcatggg aaagctatat tcaggaaaaa aaaattcttt ccaaaaaagt tatagaaaaa 120  
 gaaaaaatca agttccacaa tatgctaatac tggacatgta agtgaagacc aatgcctagt 180  
 ttggattaac ttgtgggaat tttttaatta agaaacccta ctattattat ttttcaaagg 240  
 caataatgcc aagttttgat aaatttactg gtgcttatga acaatttgga caaggagct 300  
 tctgaaaaat tatagttgca taagtttttt ttttaggttt aattacacat ttagtttcta 360  
 tagtttttaa acttgtcctt tttagtcctt atagataata agt 403

<210> 22342  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22342

gcccataatt gtcacccctt cttcaagaat cccttttatt tctgaattgc nngnattcat 60  
 atatcaaatt tgttgtetta ttgaactttt ctgcaacact tgcccaacta agcttagtga 120  
 aatggctgtg aggtttatat ccaacattca cctcttctat gcacactntc aacataatct 180  
 caatatttat atcataccat cttgctttct ttcttttcac aggaacttga ttgagagaca 240  
 tttctcanac ttaatgaagc acacaaaagc ataaccctaa tccataacaa ttcaaaattt 300  
 aatgagaaga aaaagacatt aatgaaaaat tggtaaccc gtgatgttaa taaaggaaga 360  
 cgaacagatg ctgaaggatg atctgaagag aaattgaaaa tggaagagag actg 414

<210> 22343  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 22343

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ggaaaggaat agcactcaga gcctcatcaa cttttattca agaagaaagt gacaaagagg 120  
 acttgaatga aatagaagaa ggtgatgatt tcataccttt tgtgaagaga ttcaataagt 180  
 ttctgagaaa caaaagaaat caaagaaaat caaacatcaa ttcaaagaag aaaggagaag 240  
 attcctcctt agccccaaaa tgctatgaat gcaatcaacc tgagcacttg agatttgatt 300  
 gtcttgtcct taaaagaaga atggaaaaat tcgacaagag agatttcata gaaaagacag 360  
 catacgtcac ttgagaagac aatgacatgg atccttcagg tgattcagaa aataaaatca 420  
 taaatctggg 430

<210> 22344  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 22344

actttgccga cattttgttt ttgcccctg tagagataag gagtagggcc gatcatttgt 60  
 gttggaatct catatgggtca ctggtggagc tttatctagc cgatcgtaca cgttgatacc 120  
 tcggatatac aacaagtggc acacaagctt ttatatatat cacaatgtct ctaacttgag 180  
 aagttatatt gagtctatca gactgagaag cttggatgag aactcgaacg agttgactaa 240  
 taagctaagt gaaactgaca ttctgatacc aatgccagat gtcgtacaag atgtcacgac 300  
 ataacacttc agaacatgct agatctattc tacagtttgc tct 343

<210> 22345  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 22345

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 gccgatacaa agacagggtta accatatctc gcctgcgcta attgttccat gctatatgta 120  
 gcacactcat tgatcctgtg aagtctgatg acctgtacaa tgaggccgca gccatactgg 180  
 gccagttgga catgatattc acccctatgc tttctttgac atcatgatta actcgataga 240  
 gcatctgtgc agagaaacca aacgatgagg gcctgtttat ctacagagga tgtaccgggt 300  
 agaacgatac atgaagagcg taaaagggtta caccattaat ctatatcgac tacacacatc 360

cattg

365

<210> 22346  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 22346

agctttacac gtatcattta agtgtatgga ccatatcgta gccaaaggtgc tcatcgataa 60  
tgggtccagt ttaaactgga tgcctaagag cactttggag aaattaccat tcaatgcctc 120  
ccacctaaag ccgagttcaa tgggtggttcg tgccttcgac ggcacccgcc gagaggtag 180  
gggacagatc gacctcccag tacagatagg ccctcacaga tgccaagtta ctttccaaat 240  
aatggacatt aacccccctt acagctgtct gttgggggtgt ccgtggatcc actcagtggg 300  
agttgttccc tctacacacc accaaaagtt gaaattcgta gtggaagggc atctgggtcat 360  
cgtatcaggc gaggaagaca tctt 384

<210> 22347  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 22347

ttgacttgag tcatcaagaa attataaata tgtgaccatg gcatgagttt cattaatcat 60  
ccttcaataa gttttcacia caagttttta caaaactttc tacctcggtt ctcttcatct 120  
ttcaatagaa atatttgatt cattttctcaa cttcttttcta agagtttttg ttcaaaaactt 180  
tctcttccaa gaaaagttct ttgctaaaaa acttggtgcta ttttttcttc ttcatctctt 240  
tctccctttt ccaaaagaac gaagcactaa ccgcctgaat gcttttgtgt ctctcttctc 300  
cctttgtcaa aagaacgaag gactaacgcg ctcaattctt ttgtgtctct cgtctgcctt 360  
acaaaagatt caaaggacta accgcctgag aattcttttg attcttccct tccccttaag 420

<210> 22348  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 22348

agctttgtga agctcctggt ttatctttac ccgattttac tcaaccattt gaagttgaat 60  
gtgatgctag tggagttggc attggggctg ttttgatata aaacaaaagg cctatagctt 120  
atttctcgga gaaattggga ggagccagat tgaactattg cacctatgac aaagagttct 180  
atgccattgt gagagctctt gatcattgga atcattatct gcgttctaata cactttatat 240  
tgcattcaga tcatgagtca ttgaagtata tcaatgggca gcagaagttg agtccaaggc 300  
atgctaaatg ggttgaattt cttcaatctt ttaattttct ttcanaatac aaggatggta 360  
agagtaatgt ggtggctgat gcactt 386

<210> 22349

<211> 419

<212> DNA

<213> Glycine max

<400> 22349

tcgacaaaa tcaaagata ataacttttt actcggttgt ccgaatgaat accgtattat 60  
atcgagaggt tcgaaattga caacggaggc tctgagaaaa tccaaacgac aataactttt 120  
tactcggatg tcagattgtg tcccatagta tatcgagatg ctcgtaattg aaaccggatg 180  
ctcgtagcaa attcaaacga caataacttt ttactcggat gtccgaatga atcccataat 240  
atatcgagac gctcgtaatt gaaaacagaa gctctgagca tatttctaatt acaataactt 300  
tttactcgga tgtcagattg agtcccgtaa tatatcgaga cactcgtaat tgaaaacaga 360  
agctctgaga aatatctaac gacaattact ttttactcgg atgtctgaat gaatcccggt 419

<210> 22350

<211> 375

<212> DNA

<213> Glycine max

<400> 22350

agcttgtggt ataagaagct tatggtgtat ttaatccaag tcagaaaata aaaaatatta 60  
attatctttc aacagtattt ttctcattga atattgttgc tcctaaatat taattaattc 120  
gaaactataa tataatgttt tataatgagg acattttaat aaatagaggg gctcactaat 180  
taatttgatc ttcaaacttc aagttcttga agacgggcaa caagatcgag caaataaaga 240

taatgttcag acaatagaat agcgcccca gcaattgcaa gttaaatttgg aggaaaccaa 300  
 caaattcaat tcatactttt tttttattat ttatttttat atgtataaat taaaatagtt 360  
 atgtacttat gttga 375

<210> 22351  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 22351

atcaagcatg aagaattcga tccaagattc gagattcaag agaagaaatc gtgaagatac 60  
 aagtcgcgac ttcatataga ataagtttta aaagaattct tcaaaaacca aatagcacag 120  
 ttgcgtttta caaaagaact tgctcaaatt ttctaaagtt acatagtgat tactctctgg 180  
 taatcaatta ccagctggta gtcattcaatt accagtgacc agattgggtt tcaaaatggt 240  
 atcaaatgat gtgtaacgtt ccataatgat ctttagatag tgtaatcagt tgcactatat 300  
 taggaatcga ttacgagtga agctg 325

<210> 22352  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 22352

agcttggtat caaagtacat gaactatgct agtagaattc attttcaggc agcaaaaaga 60  
 gctcttagat atgttaaagg cacaattgat tttggaataa gataccatta tgttaaaaac 120  
 ttcagacttc atggttattc tgatagtgat tgggctggat gtgctgatga tatgagaagt 180  
 acttcagggt atcttttttag ctttggttct ggaattttct cattgtattc aaagaaacag 240  
 gaagtaatag ctcaatccat agcagaagca gaatatgttg ttgcaactgc tgcttgtaat 300  
 caagctctct agatcagaaa gcttatgaca gaattgcata tggaacaaca agacaatagc 360  
 caaatatttg tcgata 376

<210> 22353  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 22353

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catccagcag aggtatgttt acctctactt ttctaaatgt ttcaaagatc tctttctatg 120  
cctcttccat ttttttggtg gaaattgctc ttggagggaa tggaagaggg atatgctgct 180  
tctctttaga ttcacctgga tagaaattgt taggtaactt actctttaaa tttttgtcat 240  
catctttttc tggagtagag tgaggttggg caggttcatt ggtggatgag gaagatgcta 300  
ctggttgagg tccttgacac tgctttcctg acctcaatgt aatgacactc acattnttgg 360  
gattctggac agattgagaa cgtaatctat cagaattctg ggactgttgt tgat 414

<210> 22354  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 22354

agcttgaata tgatgctcta atggaggaaa gaaaagagaa gggggagcac gaaattgaag 60  
gaataaaaga gggagagaag tggaactttg aagtgtgtct cataagactc ttcttcatca 120  
aagttacaac aagtgttaca catgcttcta tttatagact aggtagcctt cttgaaaagc 180  
tttcttgaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag aagctagagc 240  
ttagctacac acaccctct cataactaag ctcacctcct tgagaagcat cettaagaag 300  
attcgtaaag aagctagagc ttagctacac atacctctct aatagctaag ctcacctcct 360  
tgagatgaga ag 372

<210> 22355  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22355

ntacagcaga ttttagtaat gaccactaa cctagaattt aaataactta atgccattaa 60  
cctaggggaat taaaacaaac taaatggctg agtgtaactg aaattgttgg caacccaaaag 120  
tcacccccaa cagccaacaa gtcagccacc atttggctc ccaaaaggct gatgcctagg 180

ttgccaattg ggcccttatt acaacttgaa ctaaagccct tttagttgat taacccaaaa 240  
catatTTTTTg gtcagccaac tttacaagga ttggggccatt atttagacaa actaaacact 300  
ctaaaattga aataaagtgg tgtcatttag tcttccattt gggccatgat acaactcaca 360  
accttggact tttctccttg aaacttgggc ttgtattcaa atagtatgga cagcac 416

<210> 22356  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 22356

agcttcaact attcctgtgc atttctgatg gttacattat ctactgacag aataacatca 60  
ccaggagcta aataaccgaa caaaggtgag gttgggggta cattcaaaac ctgcctccca 120  
tgtagccacc aacatgcaat aagaaagtgc atgatataca aaatccaaac aaaatgacaa 180  
gcatacaatg atttaggaaa agtaccatgg gactactatc actgctgtaa aagggaaaca 240  
agatcatggg caagaggaat aatgccattc cgcaagctgc acaacactag aaaatggctg 300  
aaggtgtaga aatgcaatta gcaatctaga tcatttaaaa atcaaattaa aaacatacat 360  
atgcatataa atgcat 376

<210> 22357  
<211> 180  
<212> DNA  
<213> Glycine max

<400> 22357

cctcttatat gcgtagtgat gaggactaa tctcaaagt cttttagtg agtgcaatga 60  
acagccctgg tctgtatcgc catgcacttt caacaccctt atgtgtgctg cccaatactg 120  
gcaagagtga ctggtttact tcttttaaacc accacccttg gtctttcgag ccactattcc 180

<210> 22358  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 22358

agcttattgg attatggggc acccgtcata tgtggtacta ggaggcgatc gggcgatgac 60



acaaatcaac tatccccattt ccaaaagcca ggcagaagct ttcacaatat ccaaacaatt 120  
 caattccatt tgtcatgaaa ctaccttaaa caaagaaaaa cagagtggag gcataaatct 180  
 ttgcacaaga ttcattcaaa ttccatagag tttttcctac cctcatacct tagcaaaatc 240  
 ctcttcgttc cgattcggtta acctttggat ctcttgaaa atttaactgg gggttcctaa 300  
 tacagaaatc taaattttga ccattgggat ctgctaaaga acatacaaaa cacgaaatat 360  
 actacctttc ccgtgac 377

<210> 22359  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 22359

accgcttgag atgaggaagt gtggaagggg gagacttcct actttttattt gttgttcaca 60  
 gagtgggtacc tggagatatg tcgcgggggt caggagacct tggggacgtc aggtgggggtg 120  
 ctattgcccc aaaccaagct tgaccaatcc tgaccaaac ccgggcataat cagtcagtga 180  
 gaacctgtga tgtacctaaa caggcgagct cctggcagtc aaccgataaa agaacaaaga 240  
 ccacaaagca gggaggcttg tgtggtggct ggccaactat gaatcttgag tgatatctgt 300  
 gatatggcct ctagtaatcg attaccaagg gtgggtaatc gattacaagg cttaaagggtg 360  
 aaggtaggaa gctaagatgg cctctggtaa tcgattacca aagggtgtaa tcgattacca 420

<210> 22360  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 22360

ttctgcttta tatggttaca aaccaatcaa caacaatccc ttgatggcag gtgatacaac 60  
 agttgaagca gtagactaca ccatcaggac tcgagaggaa attgcaacaa ttttacacaa 120  
 gaatctcagg aaagcacagg agaggatgca gttgtatgct aacaagaata ggacaaacaa 180  
 agaatttgca gtgggagatt ggggtatattt gaagttacat ccatttaaac aacagtcaat 240  
 acctaactca gcgtttcaca aattagttgc acgattttat ggtccttaca gaattgtaga 300  
 gagagtgggg aagggtggcat acaagctaga cttaccagct caagctcgca tacataatgt 360

attccacatt tccttg

376

<210> 22361  
<211> 407  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 22361

ntccaaatat gtagcaattg atctgcaaac aagtggtaaa acttcaaaca gcttgctaga 60  
atctttgtca aaacacaaag gtaacaatat tactaaaata aattctttga aaaatggtac 120  
aattgatatt caatcaagca aagaaaagtc aggtagtttg tctacacggt caaaagtcaa 180  
ggaaagtgat aacattaatc cctcttctat caaagatgga aaacttgaaa gtatttccag 240  
cagtttcagc aacatggttg tcaatataag atctggaaat tctgaatata ctaatgctaa 300  
gggaacttgc tcacatgttt cttataagcc agaaatatgg attctccctc aacaagttga 360  
agatacattg actcagctga atctttcaat tgtatgcaaa tggacta 407

<210> 22362  
<211> 373  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 22362

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gtgcaaggca ccttccttct gtcaaacttc ggtctattaa cgaaaacctt ctagccacct 120  
ataaaaaatat tgttatctag gcatctttcc aacctctgct catccatcac ctctttgaac 180  
ctaacaaaac cgaacctatg gccaaagttg tttttggttc gggggatgaa gacctcccat 240  
acctttcccc atttctggaa aatctgccac atatcttgct ccattatccc ttcagggaaat 300  
ctagagaaat agaaggtcgt aacatcatcc ttatttctct atgtcatctg ctnttctttc 360  
ctttggtagc tgt 373

<210> 22363  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22363

tgttggacta tattttacat tactgctgga aataaataac agatacaggt aagccagcaa 60  
atcccaattg tcaactatatg tttttatagg ttttggtttt ggtagttttg ttgtcttgaa 120  
tgtgcataca tgnnaaactg aaattatttg ttgagaacat tcggttggtg cttgttattg 180  
tatatttgct tatgcttttg ccattatgga caataaatag ttaaggtgaa tatatggtgg 240  
aatcgtaaca agatttagtt tgccttttga tatgccaaca gtagagaccg aatgattgat 300  
ttagttctac tattgagcct gcagctccaa tctttgaagc tggatctact tctgtgcaag 360  
ctaattctcc tcagtcatta gattagtctc cttctg 396

<210> 22364  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 22364

agcttgaagg tgtgtacccc accatttttc atagtaaaac actggtaatg tgtctactat 60  
tattgtgac atctctttct ccgtcattgt aggtgccact tgagttgcca agtctctcca 120  
tctttgggca tattctttga aagatccgtg cccctttttt gcacatgttc tgtagttgta 180  
tcctatccgg aatcatatca aaattgtact gatactgcct aacgaaggca accattaggt 240  
ccttccaaga atggactcgg gaaggttcca agttagtgt ccaagtagca gctactccag 300  
taagactttc ttggaagaaa tgtatcaaca gttcctcctc ttttgcgat gccccatct 360  
tttgacaaca catctttaga tg 382

<210> 22365  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22365

ntntgaaaag acacatttct tcaaaccatt ttgaaaaggc acaaaggacc tatatatatg 60  
tgtgtttgac ttcgaaaagc aagaaagaga tattctaaga gaacttcatt gtcaaagtct 120  
ctctcaacaa ctcttgggca aacacttgca aatctattga gagttcatct aggaacatca 180

aattgtatta tccactctaa aggagagaaa tctttttgtt catctcagaa aatcaattgt 240  
aatcaataga ctggttgtct cttgaattgt gagtttcctg aacacaaggg aaagggattc 300  
cttaggtgtt cagatgttgt aaaaagggtt ttacaaagt agtgaaaatc tcaagtgggt 360  
tgcttgagga ctggacgtan gcacgggaag taaccgaacc agtataaatt gagtttgcac 420  
ttct 424

<210> 22366  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 22366

agtttgtcct aactgtttgt atgatcttta gagatgtcac tgacctaccg tcacattatt 60  
gtagatgctt tctctctata ttctcttgct cttatatatg aaaggtgcat tcacagcccc 120  
taacttcttt tgttttctat tattaagaac aaaatttgtg atgaattctt tgaccttgc 180  
taccttaa attggtctaaa attaatga tgttattctt tccctttttg tatattgcta 240  
ttttgatatt tataacagaa agaacaggcc aaagttaaca tggagggcgc tcttgatgtc 300  
attattttgc ggcataatg ggtatggata aactc 335

<210> 22367  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22367

ttggactcct tgcanagcag ttccgtaagg tgtcttttat ataccatttc tcaactagtct 60  
ctttatttgc ttcttatttg cttcttattc ttttaataaa caagagttat aataatattt 120  
gtacgtaact tattcataac cgttatcctt gctgaatcat attctatcaa cattatagtg 180  
tcattttgag ttgccattc acgatattgg gaattggatg caattttggg tctagaattt 240  
ttttatcct agcatttatc tctttttttt tcaatgaaaa tcattgtaat tttgaagtct 300  
gtcttgagaa caaatcaa atggagattaa aaaaagtcct ttttttgtgt tataggtatt 360  
ggaattattt ttacctatg aattatggac taaatatgta t 401

<210> 22368  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 22368

agctctcttaa tccatataaa ccataccatg ctcttaacat gtaatattgt cttcagccat 60  
 catttgagaga gctagtgcga atctttctct atttactaaa tcacttatgt aacatctgta 120  
 acaattttacg gacgtataat gctgccactt aacatgacat ctgatgatga accaattttac 180  
 gtaaattgcta agcagtacca tggaatcatt agacgtcggc agtcccgtgc caaagctgta 240  
 cttgatcaca aattgactaa acgtcgcaag gtatgattcc tcatatgggg gtatcccaca 300  
 tatttttttca ctcatattaa tgaacattat agtctcagct tcactggcct tgaaaaaaag 360  
 taggtatgat aggggtggtct ggcctaactc ttgtagaaag tgatagatta tctctttcaa 420  
 gcaacgc 427

<210> 22369  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22369

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 gataattcaa tggtagccat aaccctagcc aagggttcac aacctccatt tcttcgagaa 120  
 tacgactcga acgcaacgtg tgcttgtcac ggagaagccc cggggcggtc cattgagcat 180  
 ggtaggggtc tgaagcgtaa ggtgcaaggt ctaattgatg cgggctggct gaaatttgag 240  
 gagaattgcg tgtaaatcct gacattgaca agagatgccca cacatggggc aattttgaca 300  
 gttgtttgta tgtgtcccta atgactcatc aggggtttcca agtttatgcc attattgtaa 360  
 accacagcta caatgttaaa tgaaa 385

<210> 22370  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22370

ctaagctcgg tgcgttgccg gtactcgagg gaccatgagg tttntgctgt ttcttgaccc 60  
 actcgggtgt tgaagagacg gcatgggcat ctcttctttt cctttttgcc cctgtcgccc 120  
 cgattctttt ggcattcacg tttgtggagg aaacgtaatc aaactttcct ctcttcaatc 180  
 caacctcgat tctttccccg gcaaacacca gatccgcaaa gctggacggc atgtaaccca 240  
 ctagcttctc atagtagaac actggcagag tgtctaccat catggtgatc atctctctct 300  
 caaccatggg aggagctact tgtgccgcca aatcccttca tcgctgcgca tattctttaa 360  
 aggtttcacc ctctatcttg aacatattct gcaattgagt accgtcaaga gccatatc 418

<210> 22371  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22371

gcacgcaagc tcattggaat aaggcgcgcc cgngaaggag gaactacgag gccaacagac 60  
 catgacccaa atcaactatg ccaatgacac aagccaagca gaagcgttca caatatccaa 120  
 acaaatcaat ttcattccgca cagacactac cctaaactaa tatgaacaga gtggaggccc 180  
 aaaacatgc acaagatata ttccacatcc atacagtgtc cactaccctc atacatgaac 240  
 aaaaatctct ccggtgcgac acgaatacca ccgg 274

<210> 22372  
 <211> 673  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22372

ggggagggga gcnnnnnnnn natttgatna cccanattt gatnnnccga tcacgtang 60  
 nnnntcatnn cancannata ngngcnnnan ngnagnntcg nagnccang tatntcang 120  
 nngngaggan gagtatacng nantngtttt tgtatnnann agagatanan aatanggnn 180  
 ngnagtatca nacaagaagn nngaganntg aggggnngaa gatctntagg aggnnatggc 240  
 gagacncca gagaactaac gntcgtgagg atccgtctac accacgtgat gagcgatntc 300  
 ncgacntcaa gtacgcgaag caactcgttg atgtgtagtt actttactct tcgcgacgat 360

gctttctgat aaggcgtcca tagcccgagn gtattcgctt tcacaaagag cacattctgt 420  
 atggcgtttc accgctctga ttacgcacta ctatcgacat gggactacta cgacagtaac 480  
 gcactagttg ttggtgttct cgcaaagacc tatggaagct ccgaatgacc gtgatgtgca 540  
 tctgctacgt ttatcttcta tgagcaataa ggcgagtgga catttacgac attcgttcag 600  
 taggtgatcg caaagacttc aaagaacagt atctgagatg actattgctc taaaggtgta 660  
 atctatacga ccg 673

<210> 22373  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22373

cgcnaacgg agtnnnncat tgaaccccat agcatatcct cgacactatc agaaaccac 60  
 ggaataactca agctaaaggt cgctccttcc actacgcgcg ttttaacaat tgtgtcacga 120  
 acngagtccg gcgggctcga cccacatccc gttgcatcat tcaagtgagg gttttatgga 180  
 gatgacaact cacctcacct ggtcgcccta ggaagaacat ataatggggt gaccaccatg 240  
 cccaatagcc ctctgggcaa tgatatgatg aaggcaggtg ataaggaagt tcaagacgtt 300  
 gatgtcacg acccttgtcc cactgaacag gctaggctaa tggggtaagc ccctaacacc 360  
 tgccctaccc atcctgcaca acctttttga aataaaagat tagctctttg tagaatcaat 420  
 gactattact aaaaaaagga cccgctacaa ataaagattc gactattatg aaactcacgg 480  
 tattatctgg atc 493

<210> 22374  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <400> 22374

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 tgaagcatca ccttcaacaa aagcattgcc aggagaccta ataggaaaca tgagtcttaa 120  
 tttcattgca ttttggtac taaaagtgat gtaacactaa aacatagaaa cctacttgta 180

cttttgacct ccatggacca agaactatc ccaattacca ctgtgttcca cagaaactcc 240  
 aaaacgctcc atcaacttca gagtcatttc aacatatgga acagaaatca gtttatcaac 300  
 aatctcaatt tccacatcac caagagctaa aggagctgcc ataagcaaag cagtcaagta 360  
 ttgactgcta actg 374

<210> 22375  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22375

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 atcatatctt tggcacttgg gtatatgcct tacttgggag cagccacatt tttctttaaa 120  
 atatgttttt ctattttaaa gccttataat agcatgaaat tgtcagaaaa tgacaatttg 180  
 tgggtggcttt aaaaatctta agagatcaat tacaatat ttacaagatc aacgacacga 240  
 ttactatttt tttagtttag agacctaaat aaaaactcct aaatagttga gggaattaaa 300  
 ttaaccttga atgaacataa acaacaact tttcacatgg atatgtaaat aaaaacacca 360  
 atat 364

<210> 22376  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22376

cagggcccat gagcttgagc ctgatacgcc cnaaaaacnc gcggaçcaga aagccccgat 60  
 tttaaaatta ctgccctttg gggaccaggg gacttcagct cagctccccg aaagagccaa 120  
 acgaacgggt acaagagaga ggaatccgag agctacagag gacagagcac attcacgaac 180  
 ggggcccgtt ccggaccaga ggaatacaaa acaagcggca cgcaccgggg acgagacaga 240  
 tggggtagga aagccaacgg gaaaacgtgc aatgtacacg cagggagggg ggacggaacc 300  
 gagcaaacga cagtacaggg gggatccatg ggagagg 337

<210> 22377



<211> 389  
 <212> DNA  
 <213> Glycine max

<400> 22377

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 caatgtaggt cattcaaâtg aaaggctctgt gggtagaaâg gattgagggt gaggctgctc 120  
 ccacgtatga tatctaaaâat ggactagcat aacatattcc tgtgtcagag ctacttatgt 180  
 aaaggattat ttacaaaâc tcaaâtggta aaaâcâacat tcagggggcâ aatagâcâââ 240  
 gctgatacââ ctgggatcca caaâtâgââg aattcâcâcâ acagtâcâcâ gagâcgcgââ 300  
 gagâgâââââ ggaaccagct attatctatt gattactgââ aatâgtgtct cagcactctc 360  
 ctctâcââtâg agtttcccca âtââââtacc 389

<210> 22378  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 22378

gcccttctga tccgaagagg ctgacttttg cggatttcgt cgagagctta tttgacctca 60  
 tcaacgtgct ccatcatctc ttcgaactcc tgcgcctcca tcagcgtcca cgtagtcgga 120  
 atccccctcg gcggcgctcg cttcgccctc ttgactccc ttgctacgcc tgcgcgggag 180  
 ccgtatccga agtcgccgat ctccgaatcg âataâtâacc âatgctgca ggaccattcc 240  
 tgggatgaga acgctaâtcc gcâgâââggg tcgtcââtct cctgâgâtaâ cgaâtccctg 300  
 actggcttcg âââcgtcgtc gattatâgâg gâcâgâtcccg âttâcgtâcc cgâgâgggggt 360  
 cctttgctgc tggcgtâggc gcggâcâgâc âttttâcâtg gâgâtcg 407

<210> 22379  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 22379

agctaccctc ctgtgttccc cttttttggc ttcccaâgââ gtaâgâggââ tgacttgact 60  
 ttctâcâttg âââgâââtââ ctggccâââg ââctcââttt ttcttââââ gcâââcccca 120

cttgatagat tgtgaaggaa attacaagat cagaaacagt caaagaagtt tacctactaa 180  
 agttacaata atgtgaaaaa taaaaaaaat ctccctcaatt accttcagat cctaagcaaa 240  
 aacaaaaaag caggtgttcc aaacataaca attatcatca agaagaaaac aaaactgggt 300  
 tggaagcaca ttccagaccc gcaatgttga gaagcattca ctacgaagaa aaacaaaaac 360  
 tcaaaga 367

<210> 22380  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 22380

tgggtctaga catgtctata gcattctcat gagctagttt atataaggag ttagaaattt 60  
 tgtttgtctc tctataaata tgagaacctt gttggattaa aataaaattg gaaaataaat 120  
 aaagaacttt aacctatata ctatgtgac aatctataaa atgataatca taacatttca 180  
 attatataat cattaagaaa taagggtgga catgggttag gttgctcggg tttaaaaaat 240  
 atttagattt aaccaaatta atattaatca gaaaaaaatt atatagaatt aaacaaacaa 300  
 attatatatt atagaatcat acaacataaa aaagtatatt ttttctaaaa tggtataggc 360  
 ttatgttggg ttgggtctcc gtacctagat ctgataattg aattga 406

<210> 22381  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22381

taagagcaat ntcttttttt ntcttatcat tnnctttgtg tngatnnaat ctcaacagtt 60  
 ccatttcgta ttctgtaac ttccaaata gtgtagcaag agacatgtta gttaaatctc 120  
 gtgactcagt aatgggttgtt accttaggtt gccattctct acttaaacat cttaatactt 180  
 tatttatgat atcttcattt ggaaaaattt tcctaaaga tgcaagatga tttattatat 240  
 gtgtaaacct cttttgcatg tcttgtatac tttcatttga attcattcta aataattcat 300  
 acttatgagt taatggattt atcctagata tttcacatc tgttgtgccc tcatgtgtta 360  
 cttgtagggt atcccacat 379

<210> 22382  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22382

agcttggttat actattatgt attatgatat gaacaaatat gttaatgtta tctcattaag 60  
 agataatata tataattgaa ctatTTTTTT tgttggaata ataaactatt ttaggaaaac 120  
 aaaatataac atatggcttc aaatatacta tgttgtaaaa tagtttttct tatgtgaagg 180  
 tctcattgaa aaataaatag acttcagttg aaaataacta taaagtcaga aacaatcatt 240  
 attgaataat gtttaattgt attagatcaa gaacaattgc ttaaataatgc ttaatttgtt 300  
 taaaaaattt caaaatttga gtctaatttg ttatttgtta taagttntat ttttaggtta 360  
 aatttaattt atctgaaagt ctaact 386

<210> 22383  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22383

ctccaaaaag aattgcaaga gtcattgttag cgagatcttt cgattatgca atngtagtta 60  
 cctttgggtg tcattgcctg cttaaacatc tcaacacttt gttaatgaaa tcttcattat 120  
 gaaatatttt ttctaattgat gcaagatgat taactatatg tgtaaattct ttttgatat 180  
 cttgtatggt ctcatTTTga ttcattctaa acagttcata tttatgtgtg agagtattta 240  
 ttctagatct cttgacatca attatgcctt catgggttac ttgtagtgtg tcccacattt 300  
 cttttgcatt ttacaattt gaaactctaa aatattcatc catgcctaata gcagaggtaa 360  
 ttatattttt gacctttana ttatattgaa cctttcttct ttcattctca tcccattgtt 420  
 ctctag 426

<210> 22384  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 22384

agcttgtatt tgaatgttga tgtttattca caaaaccaa atcgaaattc atcttttgaa 60

gcaataatac agccaacaga atccagctaa tggcataaca tgcaggacgg ctgttaaata 120

ccattatttg cccactctga accagagaga actcctgctt tgattttttg tatggatttt 180

gagatacacg gggagagaca cctctttgtg cagcctcagt tgatgccata gtcacaacat 240

gtgcagcttc gtcattcatta gcatcaaaca ttgactttgg gtttctctta ttaggcaaaa 300

cataattttc cctatcatca ggcttagagt cgttaactgg gaaacgaggg gtccttttcg 360

caactggcca aggtgggata cctgat 386

<210> 22385

<211> 425

<212> DNA

<213> Glycine max

<400> 22385

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gcacaagtgc tagttgaaag ttcaatgagg aaacttcttg atttgtttta ttcttatctc 120

ctgtaagtgt tttgttaaga tataggaaca taagcatggg tagaacacct ccaagtgaca 180

gtggagactt atttttgaag gatactctac gcattcccg c aatgtcattc tatttcaa at 240

agtagtatat gtttccttac tcctgttg c tcaacatgat tttatagctt ttaagtatct 300

ttaatatagt tttcaatctc agtttcttgt atcccttctt tgacttgctt taatcagtgc 360

tatcaggcac cgttgttgac aaagtagttg ctgaactgga gtcattgcggg ttccaatgtt 420

tcatt 425

<210> 22386

<211> 333

<212> DNA

<213> Glycine max

<400> 22386

gcctttgcag gataacgcaa ggccttaacg cacctattca agcgccatat tgcgttctga 60

aaacctacat tattccaata acagcaaatg gagagcaaca cgatatccat aacaaggaaa 120

agcactggac ttgatctcaa ggtcaaaaat ctgaacaatc agcaatgcgt gaggagtatt 180

gcagtgagag agagagacct cgtttccaat ggagtgtgtg caatacacgt gggcacggcg 240  
ggaagtatgt gagagtgagg aaagaagagt ctcagcaacc accaaaacaa caagcaaata 300  
tgattaacat aacattgatg aagagcattt att 333

<210> 22387  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 22387

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agaaaatatg ccactgatat cttgaagaag tttgcaatgt ctgagagcaa acatgtgaaa 120  
agtccaattg ttccagggtt taaaattaat agagatgttg atggtgcagc tgtggatgac 180  
acttatttca agcaaattgt tggaagctta atgtatctta caactacaag gccagatata 240  
atgtatagtg tgagcttaat tagcagatat aggtcaaac caatagagtt gcatttaca 300  
gctgctaaaa gaatattaag gtatttaaac ggaaccacta gctacgggat attctacaag 360  
aagggagggg cagaagactt gtttgctttc acggattc 398

<210> 22388  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 22388

agcttgcaac atcagttaca tgaaaaactg tctttgcaga gacagagagg gaaagatgtg 60  
aaaacacagt tacctagggg aattttgcgg tctgtccga gtcaactaca ctagtttggc 120  
actaggtttg atgacatgtc aacgagttac ttacagaaat gatccaacaa ttgaatcagc 180  
tcggctaagg gtctggtttc cgattcaacc agccgagccg agccgagttt aataacactg 240  
attgggaggg ttccttactt agtattgaaa atcttgcttt caatttgata gtaggtagta 300  
aagttcttct tcatggagta tgtctcatta atattctccc gcatttcaca aatggaggta 360  
gaaaacatac aattacagct tatatt 385

<210> 22389  
<211> 424

<212> DNA  
<213> Glycine max

<400> 22389

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ggtcatacaa tactacgcat ctttttaaagc acaaagcgag gatcagaacc tcaaccctac 120  
gttcttttaa aagactgcga tgggaaaatt acagaggaca ggaatccctg ggggaaacca 180  
agaagaacac aaaaaataa aaacatgcag cgacttcctt aattgcccc a gatctcaagc 240  
atagtatcgc ttgacaacgt cagagtttac ggggtgaaggt agctccttgt catccatgtt 300  
ggcgagcacc agggccctc cggagaaagc cctttttaca acgaaaggcc ctctgtagtt 360  
cgggaccacac tttcctttgt tgtctttcag agcttgggag actttcttca gcaccaagtc 420  
ccct 424

<210> 22390  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22390

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cactaaaata tgatttttgc gggccgagta attggaacca caaccttggc caaaaactaa 120  
ctgtatctat gaattagggg agtgcattta gcaactgcaa tgttgtgaag gcttttttga 180  
gttttcttcc actgcaatct gaaaacattt ttcattctgc aacgcttctc tttatctcga 240  
gctcttctcc acctttattt tgcaatgcat tagccgcatt ctttatgtag gagaatgtct 300  
atggagaaaa tgagattaca ataataaaaa ataacagttt tatttgtgcc tcagtacact 360  
cacaacagta aaagagccac tagctag 387

<210> 22391  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 22391

tcaggcttct gacctagcct tctcatgaa ataaagtata taatatttaa ctgttgccgg 60

tcaccttgaa aataacagag attttcttct cttgtcctt tcaaatacct gtttccaaat 120  
 attaaaacca gtagaaatgt agaatccaga tttttttttt ttggtgacgt agaatccaga 180  
 ttataatcaa actgtgtttg tagcctgctg taaaacttgc ttggagtagc cacattcaaa 240  
 atagaagtga tcatttgttt caactgctcc atcacgggtt acatgttgaa tccatcaggc 300  
 atgtaactga actgtgggat tgtttttgat gacttgaata tgggttttta tgttgataca 360  
 agtttattta ttgttgaagc atgtatgtct ctgcattagt ttacgtatat cttgtatgat 420  
 tac 423

<210> 22392  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22392

agtttcttat tctcagctga tgaagatgaa ttcggtggcta cttcatgcac tcctctaattg 60  
 acaatagcat catttctggc actaaattgc tgggagttgg aagccatctt ctcaattaaa 120  
 tttttggctt tagcaggggt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tgttactgag tccttcataa aaatattgga ggagaagctg ctcagaaatc 240  
 tgggtggtgaa ggcaactggc acatagtttt taaatctctc ccaatattca tattggctct 300  
 ctccactgag ttgcctaattg cctganatat catttctaatt ggccgtgggc ctggaagcag 360  
 ggaaaatttt tt 372

<210> 22393  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 22393

ggacctatca atctcagcta gagatgcccg agtcttcac ccttgagatg atttgaagta 60  
 ttggccatca gaattgccat tccttgatt ataggggtga accgagctca tgctattaca 120  
 ataaggttca tcaagtcagg ttgaaatatg gaagtaacca ttctgcaaac ttggggcaaa 180  
 agatgaatcg agtcacatca ctgcttggtc tactgcccac catatttatg attatcgatg 240  
 tccttggttac ttacagtttc accttgacaa agatgtcatg gaccatgttg aaaatctaaa 300

ttgattcaac cccatatacct gcgtaaaaat tctcaatact attacatcat tcgcatgcat 360  
ccatgctttt cattggtggc attgatcata tgattct 397

<210> 22394  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 22394

agcttcctta gaggccaact tcaggctcac gaattgcaag tccaccctcg caaagcctcc 60  
accctacacc ctcgcaaatac tgggtgtcga tgtagaggca tccatcggag gaagagacag 120  
tggtgcacag tgtcaggggt gagccaacag aggaggtgga aggaccgact tgatgaggag 180  
gaagtcattg ttggagtcct agatttgagag ggagagagaa agaggggaag gcgaaccact 240  
tgtcatcgag gttgtcatgg aggtgagagg agggggcaag ggcaagaagg gttcggagta 300  
gaaatagaga ctgcgaagg tagagaaaga gaaggaagag aggctaggat cgttggattt 360  
gagagagaga gag 373

<210> 22395  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22395

gacactatag acaactcccc cttggacgaa tccgaaccta agtttctgat gtgtgtccat 60  
aaaaaaccag acactatacct acttttgcgt tcccttgctg tctctctctc tctctctctc 120  
tctctctcta atccaacgat cctagcctat cttccttcgc tctctctacc gttcaccgcc 180  
tctatatcta ctcggaaccc ttcattgcct agcgctacct cctctcacct ccatgacaac 240  
ctcgatgaca agttgtacga cttgccctct ttctttctgc ctccaaatct aagactccga 300  
caatgacttc ctctcatca agtcgggct tccacctcct ctattggctc aaccctgaca 360  
ctgtgcacca ctgtctcttg catcgatgga tgctcttaca tcgacgacca gattt 415

<210> 22396  
<211> 230  
<212> DNA



<213> Glycine max

<400> 22396

gggtatgatg tttaattaag acctctagag cctcaaaact tgttcctggc ccgaaagatt 60  
atcatttgag gtaatataac tactgaccat aaacttatac tacgagaaat aagtgatacc 120  
accttcaaaa gtcgaatctg atgttggaag gcaatacat cccaataga atcgctccgtt 180  
accacagcct accagaacaa tatatggaat gtatagcgat aggatcatga 230

<210> 22397

<211> 196

<212> DNA

<213> Glycine max

<400> 22397

tacctcgtgc ttcatagcct tcaaaaatgc ctcttaacgc tcccaaaaat atcattgggt 60  
gtgaactcca ctcaactagc acactgctgg agcaagaatg ttcactttct agccatcacg 120  
atgggataac acacaaattc attgcgagga tccattatga ggagctcatt ttgaagaacc 180  
tcatggatga acacta 196

<210> 22398

<211> 375

<212> DNA

<213> Glycine max

<400> 22398

agcttatatg aacaaaattg cctcaatcat ttccaaatat gcatgtgaat taccaagaat 60  
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaatg 120  
attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180  
tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaag 240  
aacttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300  
catgcaaagt cgttcatgca cacaaaattg acccaaaata ttaaactaaa aatccgacga 360  
aactaacaac attaa 375

<210> 22399

<211> 414

<212> DNA

<213> Glycine max

<400> 22399

tctaaatctc agatagaaga gagataatta tttatgttta attctaaatc ccccataaacc 60  
agctttccac taatttccta cttatcatat gaagtagaag atagttaaac attttacgtt 120  
tcacaaatat taaattaaat gcatctttta aatattttgt tacaagtata aggaggatta 180  
atatgatatt gttttagata atttatacac ctccctagtga agaaaattta agtaccttga 240  
tttctatttt ctttattcta ttttcataga cggcgttgta cttatggctg gagggaaatt 300  
gtgatgggtga aatgtggaag agggagtgtg gtttaaatt aagattcttt tcgcatataa 360  
ttacatagag aaagttatga tatatcatga taaaatataa ttatatttta aact 414

<210> 22400

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22400

agcttggacg atgtattcga ttagatccg cgtgatgaca ctgctaatag aggcccaaag 60  
cctattgaag aacttttcaa actataactc agacccaaac cggggtagta tacacagctc 120  
agccgacacc tcaccagcca tgaacataga cacatagtcg ataccttaca taggaacaca 180  
aacctatttg catggcagac atctgacata tcgggtatcc accccagcat tatatgccac 240  
aagctcgcca tctgtctcca ggccaaatta gtgtcatagg agaagaggaa gatgggagaa 300  
gaaagacgta gattggtcag agaggaagta gataagctcc ttatagccaa ttntatccga 360  
gaagttaggt actccacttg 380

<210> 22401

<211> 409

<212> DNA

<213> Glycine max

<400> 22401

ttagacttat atctattctc aatatactac ttttaatgtt tcctagcatt tatgtaggtt 60  
tttgatttct ggtgtctata gattttgtgt gaatgaatgg taaagcttaa aattttgaga 120  
ctagctttac atagcataat aacaagctcc acacttcaag catgtacaca attcaactta 180

tgagtagttt agttgacggt gtctagggtg caaaagtga actactttcg caccctatga 240  
aagtttgtgc aaaaaaaaaa aagcaattgg aaccgtccga ttagttttta ccatatcgaa 300  
tagtggagat gtgttcattg ctaccggtag taaatggatc cctcgagttc tatgtcagct 360  
ttcctcgaac cgcgattgaa ggtatggagc cctcgagttt ctgtttctgc 409

<210> 22402  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 22402

tattttgatg agatatgcag cttcattcgg gcaatgataa atcatgtggt tatgacttta 60  
tgcattgtatt cataagtaaa gaatctagtt gaatgcaatt tcctcttata gcttattagt 120  
tgtgagaatt agtcccttgc tctgattagt ttggactact ggatatactg gttcttttac 180  
cctgcatggt gtagcaacat gcaaagctct atctggtaga aagcctctaa tggctatgac 240  
acttttctat atatttgtat taaatctttt taggggttatt gtgggtggcag aggaggccta 300  
cggtcattaa ttaagtctac tctttaacta taattagtgg ttcttggggg a 351

<210> 22403  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22403

agctcgcccc cgggatgctt agagttttatc gcagcaatat gtctttgggc ncgaaacttt 60  
tctgagtgat ttcaatatgg agcagaatga tcgcccaaat atgtacgttg acaacaaagc 120  
tttcatagct atttcccata atcctgtctt tcatgggaaa actaagcatt ctaatatcaa 180  
gttgctcttt gttagagaag tacacaaaag tggacttggt aatcttgtct actgcaaaac 240  
agataaccat gctgcagatc tgttaccaag ccattgccag ctatcaagtt tgagattctc 300  
atacagaagt taggacattg gaaatcttaa agcactgaga agtgtaaga aactgctttt 360  
ggactgcacg tggatcatta ttgtccacct 390

<210> 22404

<211> 311  
 <212> DNA  
 <213> Glycine max

<400> 22404

gacctataga atactacagc ttgagggatc atatttttcc actattttaca ctgctctttt 60  
 tattgcacta catatgtgag ccactcagc ggtaaagggt aagtttatca taatagcggg 120  
 tataaagaac atgtgtaggg atccttagag gattaacttg cgatcaattt tgaaatgttc 180  
 attgaattat aactcttctc ttatgattct aaatatgata ttattgtggt tgatatacca 240  
 attgatgtcc tgatgtgaat tagataattc aattgagtga tctcggtagt tctgcatttt 300  
 gacctatgat t 311

<210> 22405  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 22405

agcttttagct ctcagcttaa actcccttca caaaatctga tttcaggctt aaataggtgg 60  
 ccttgttcgt gctcgtgccc ttagcgcaat tctgaaccgc ttagcacaca ttagtgaatt 120  
 tcgacttagc gcgtgctttt ctcgctcaac ggatggactg aagcgggtgcg cttagtgaga 180  
 tgaagtgggtg ggcgcagcga acctgtacaa ctcacccctt tccagattct tctcgcgct 240  
 tagccaatga gtgttgcgct tagcggatgc tagctaagcc agcagattgg cttagcgaga 300  
 aggtgaaaaa tagcactttt cagagttgca taattaacct gaaattgaga gaaaatgatt 360  
 attaaacaca caaaatggaa gtactaag 388

<210> 22406  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22406

ntgaaaaatt cggctttggg cagagtctct gaagatgtgt tagttacttg tgttacaagc 60  
 atttacgttt agttttatga gaaatgcagt ttcattcggg caatgataaa ttatgtgttt 120  
 atgactttat gcatgtattc ataagtaaag aatctagttt aatgcaattt cctcttatag 180

cttattagtt gtgtgaatta gtcccttttt ctgattagtt tggacttttg gatatagtgg 240  
 ttcttttacc ctgcatgttg tagcaacatg caaagctcta tttggttgaa aacttctaata 300  
 gggttatgaca cttttttatt tattgttatt aaattttttt aggggttattg tgggtggcaga 360  
 ggaggcctat ggtcattaat taagtttact ttttaactnt aattagtgtt tcttgggggt 420  
 gagac 425

<210> 22407  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 22407

agctttaacc aaaacctgtg agagtgtgat cttaaactgt gatcgaacga cttgctatga 60  
 gtaataatct ttgcatcaat ctcttaattt tagaatgaaa tgtataaatg aggacatgat 120  
 ggaggccatg attgtgcata cacaagcctt ttgacaaaa agcttacctt gaatgataac 180  
 tgtaccattt gcaccctttg tgagctgaat gatgttgtca ataattgaac cctgaaccta 240  
 aatgattatc tccagatacc ttgcttagat tctaggagag catatgggtc aaggcaaatt 300  
 cacc 304

<210> 22408  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22408

tcggtgaatc tttggacaat gttgggctga gtaggtatgc cattaatggc cattgaactt 60  
 gcaaatttgt agctcctttt tcatttcagc ccaacaatag tttggttcgc ctgngccaaa 120  
 gtgtggtagg gtgaagcatt aagctcgagg gttatttcga accagctaga attgtgttct 180  
 ggctgggcca gagcttgaca gaaaggagaa ttctctccag gggttttggc ctgaccaaag 240  
 ttgtgtttta gttgggctag actgtgacaa aatagagcat taaactccaa gagtgtttta 300  
 gcccatcaag aggttgtgtg attgggacat aaaagtata gaagggtttt agccagacta 360  
 gaatttgttc aattgggcca aaaatgtgat agaatgggta acttaagttt acaggagtta 420

<210> 22409  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 22409

agctttgcct ttagggcttg tacctcatca ctttcttccg aagctttaac ctcatcgtct 60  
 ctcacagtct ttagatttgg gagccaatcc aatccttgtg ttccgactct cagccactta 120  
 tgatagccgc cgatgatccc attactgctt cccctaagct ctctgtcctt tcttcaagcc 180  
 gcatcccatg ccttgccaac tcctttgagt accctcgcgt tgtggtcacc gaaaccccg 240  
 gcgatgaaag gcgtgatgct ttctgtgat ggcactcctc tcatggggta gccaaagctgt 300  
 cttatggcga ggacgagatt ataattaata caacccttg ttccatcaag ggaacatttg 360  
 gacatccttc gcatgaagat agaatcct 388

<210> 22410  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22410

tgtgcaaadc aaatcactcc tacatctcat ctctagcttg cattttcttt ctttaccac 60  
 tcctcacgtt tggtttttta gggaaaacac cataactaaa cgcgcgcgcaa gggatcccta 120  
 tcgcaccaga tccaaatcta gaacgatggg tgatcaagag gagacacagg aacagatgaa 180  
 agccgacatg tcggctctga aagaacaaat ggcctccatg atggaggcca tgtaggtat 240  
 gaagcagctc atggagaaaa acgcggccac tgccgcgcgt gtcagttcgg ctgccgaagc 300  
 agacccgact ctcttgcaa ctacgcacca tcctcccca agcatagtag gacggggaag 360  
 ggacgcactg gggcacgatg gcagccctca cctgngatac aaccgagcgg cttaccctta 420  
 tgg 423

<210> 22411  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 22411

agcttttggtc tttgcagatc ttcacacagc aaaatctctc aaaactcttt ggaacttaga 60  
cctttctctc tctagaatca ctagacatgc aaagcttcag ctctcagccc aaactccctt 120  
cacaaaatct gatttcaggc ttaaataaggc ggccttggtc gtgctcgtgc gcttagcgca 180  
attctgaacc gcttagcgca cattagtga tttcggctta gcgcgtgctt ttctcgctta 240  
acggatggac tgaagcggc cgcttagtga gatgaagtgg tacgctcagt gaacctgtac 300  
agttcatctt cttccaaatt cttcttcgcg cttagccaat cagtgttgcg cttagcggac 360  
gctcgctaag ccagta 376

<210> 22412  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 22412

tgcccaatgc ctctgtgttg cttccatctg ttggttattt gtcatttata agcactgac 60  
tcaggctcga aatagccaat agtgggcaga tgtgcaaaca cccaaaacta taaaaaaaaa 120  
acatgggtcaa aaaaattaat tacggtaata aagaaaaaac atagataatc acaattaaca 180  
attatcttact taccatgact aatgacatgt aacctccaaa tgtcatgtaa cctccaacat 240  
gtttgctggt gtactagctc gcatatgaga gatggtcgta tgggtatgcc aatgcagaga 300  
ctccccaagc ataccaatga caaccatcca agttgttgag gtagtgagg taggcaacat 360  
ggatgtgagt cgaggacttg ttggcaaata tcatattacc aaccaagtgg aaaagataag 420  
ttgtg 425

<210> 22413  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22413

agctttttgtg gccatgtata cactaaggct tagtgtttgt ttccccatt caatcaaccc 60  
agtgtttcca aaagaatgct cctttatcat gtcacgcata catccaagtc tatttaggca 120

ttcgggaaaa tctttcattg cgttcaccct tcaggcgcac acattttggt tttcaaaaac 180  
 cttttttatg tcatgatccg tgaatttccc aaagaaaaca gaaagtcatt ctttttcaaa 240  
 agtgtgttgg ctttttagnt ttcttttttg ttttcttttt taatttttag aaagagtttg 300  
 taatctgagg aaaaaaaggc gtgtaaatga aaacaatata caaggcccta ttntttttct 360  
 acttaagttt ttttttattc a 381

<210> 22414  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 22414

taacaataat aacaaaacaa tttatatgca gtttttataa cttgttactg aaattttagt 60  
 tacataagta atagtacga aaattactat tagtaactaa aaaaattaat gcattaatat 120  
 ctctagtga tcttaagatt tttttttatt ttgtaattag ttttattaat ctagtaaaat 180  
 tatattttta tccttaataa atatctaatt tttatatatt tttccttaat aaatttttat 240  
 ttttatattga atttctgata aaaaattttt tttatcctag acactttttt taactctaatt 300  
 aaattagtta attgtatatt ttttttctaa taaaaaattt catttggtat tagtcgaaag 360  
 taaaataaaa ttctctaatt tatcaaaaac taaaacaaaa tattaagac aaaaata 417

<210> 22415  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 22415

agctcgatag tttacttata gtcacccccg aaactcccca accttcggaa ggaacatcga 60  
 gaatggtgac aagaagtacc tccaaattaa ttaatgttat taatgaaaat agtgacaaaa 120  
 actcaaaaaa cgctgtagaa gcaaagcttc atgatgaatc aagaatgatt caaagatgtc 180  
 ttgatgataa caaaggtgat gacaaaaagc tcaaaggtca atcaaagaat gagttcaaga 240  
 aagatagaat caagaaagaa tgagttcaag atgttcaaga tagaatcaag aacacttcaa 300  
 gattcaagga tcaagcatcc aagaatcaag atcaagattc aagactcaag attcaagatt 360  
 caagaatcaa gagaagact 379



<210> 22416  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 22416

tataagaaca aaattgcctc aatcatgttc aaatatttat gtgaataacg acgcatcaac 60  
 aagaatcaag ccaaggctat tgcgctagca ctcaatgggg caaaacacac caaattatta 120  
 tgaatatgga tggctcaa atctcacaag gtaagatcat cactttcaaa tcgagctatc 180  
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacataat gtcaagaact 240  
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaagaacatg 300  
 caaagtcgta cgtgcacaca atattgaccc aaaatattaa actaaaaatc cgacgaagct 360  
 aacaacatta acaaatcatc acatctaaca cattaacaaa accaacaatga ctatc 415

<210> 22417  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 22417

agctttcctg ttggatcaag tggcctcaga ataattaaga aggggggggtt gaattaatta 60  
 ttaacgtgtc ttgactaatt aaaaatctat cattcttaat gttactagat tcaattaggc 120  
 ttttactact aagtcaagaa agtaaagaac agaaatagaa acttaaccaa aagtaaaagc 180  
 gataattaaa agtacgcagt ggaaattaaa gagtgtaggg aagaagaaga caaacacaag 240  
 atttatacta gtttgaccac aaacogtgcc tacatccagt cccaagcaa cctgcgggttc 300  
 ttgagatttc tttcaacott gtaaaatcct ttacaagcca aagatccaca tgggatgtac 360  
 cctccttgt tgatgc 376

<210> 22418  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 22418

tgtcaagccc tttagcctgg ataagtgttg tccaggctac ttttgccgtg ttgtcccag 60

tggacatgct tttggttttg taggggaggt gtgatgtgca agttgagggg cgtccatggt 120  
tctaattgatt atgccctttt ctgattgttg gaggatgcat taaagacaaa cattacattt 180  
tgtcttttgc tataggtgtg tgcagcgcac acacaatact cttgtatatg tgtcactcat 240  
ggagtgggca cgtactgaag acatggtgca tgggtgagta ggggtgtgtc atggcgcgaa 300  
gaattatagc atcatttttg ctactaccag ttactgaaga gtccgcctcc acttttatatg 360  
gaggggatgc ttgtattgca atcaactgtca cttctaaatt t 401

<210> 22419  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 22419

agctttattt gtcattgctg tgatcctcgg actgatccct agagtttatc ccgtatcatc 60  
attattagca ctttataact ttatgtttct tagcatttca gacttcatgc ctatggttat 120  
ttaagctctg gtacatttta gtttttgta cattacctt aaactattct gtttgaatgt 180  
ttaggacttg gtactttcaa ttattattaa tctttctatg gtactactat attatttgtt 240  
taggacttgg aactttaaat tatttgaagt cttgtgtatg gtttttctac tccttccttg 300  
tctttgatgt tgccaaaggg ggagaaatag ctaaaaggta acgtgatctc tttgttgga 360  
ttatttgaat atat 374

<210> 22420  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 22420

tgaacaaaaa ctggtgagag tgtgatctta cactgtgtgt gaacgactag ctatgagtaa 60  
taatctttgc atgaatctct gaattttaga atgaaatgta taaatgagga catgatgaag 120  
gctatgattg tgcatataca agccttttga acaaaaagct taccttgaat tataattgta 180  
tcctctgcac cttttatgag ctgaatgata ttgtcaaaaa tttgaaccct gaacttaaat 240  
aattatctct agataccttg tttagattct aggagagcat atgggttcaag gaaaatttac 300  
tccaactttg ggggagtgga actaatttgg atgcaaagaa agagataaag catcagcaca 360

cacaacacat aagttgtgtg ttaaaaaaag aagaaaagaa agcaaaaaag

410

<210> 22421  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22421

gcgaactatg aaactcaagc tgagtctgca tgcattctat ngattgttaa tgtattcctg 60  
ttngttattt ctacttaatt ctgcttaaca aaattaagtg tttgttagca tgacgaatag 120  
tagatcgagt caaaagtcac acactaacat catctaatta cacatgtaat tagttattgt 180  
tgttgaagtc acttctttta tataaagtgt ctgtgtctat atttttatta cacaaacttc 240  
agtatttagt ttttttaatt ttaaagtta tttgaatttc tttactttta cttaatctcc 300  
tattaaactc cattattttt aaaattattt aaatatctaa acaaaaatta gcctaaaaca 360  
ctaaattctt ctcccagaat tatcatcaa ataaaactct cattatttta aaaaaaata 420  
cccact 426

<210> 22422  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22422

aggtccgagn acgtgaccct ggaatgaatg atgcatngan angccggnga annagcccg 60  
cgcgccggat acgtagagct gttcgcnggc atttactgn attgtgggaa cccgnccagg 120  
aggcactaag acgggaccgg gcgaacacac acataaccna cccattgac aaaagccagg 180  
caaaagcatc caccatatcc caacaaacca ataccattag gcgagaaact acctcccgca 240  
aagagagaac aagaggcgca taaatctttg caccaaatg agtgagggtc caatcaggtg 300  
ttacgaccct catacaatag ctaacaacgt caacggcatg ggcgaccaac catggagcgt 360  
cctgccaaac taagtgcggg atccaatac agaaatttca gtttgacca agggagcacg 420  
gtacgaacac tcggagcacg acaaatacct ccccttgccg gacacg 466

<210> 22423

<211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22423

agaagaccnn nggtgancn ttgaaccttt gatgatctat ttgannnecn gaccttagaa 60  
 acacagcngg ggcaacnctt attctcaatt ttaacagngt tcttgacagg ggcgcggaga 120  
 tccggaggaa gtttgaggac aactaacaga aaaacacgcc gctgagtgt ttagtaagcc 180  
 ccaggacaac tgaaagcacg cactcgaagg ctaagaagaa tctgacgaac atatggatgt 240  
 tactgagcaa cggaggacat gaacatccga cgatgtcaaa tcagcaaccg caaatgactg 300  
 aagatactga ggggggtccg ccacaatgaa tcttgagtga tatctagcga aatgccacac 360  
 atcagagaat acacgggggtg gatcgacttc tcaacgtatt ttgagccaga aggctcatat 420  
 atagccactg agaacttatg acaaatgagg atctaaaatg cacg 464

<210> 22424  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 22424

agcttcttgg aagaatcctt tccactttt tcttccct tggcctttga agacaaggcc 60  
 ttaccatcct tctttttctt ttggttttct agtttttctt cctcatccct cttatctttc 120  
 atagttattt gatctttggc tacctgtgaa ggtgtttaaa gatgcaaac aaactctgtt 180  
 ccaagatggg tgagggttat ctcatagtt aggccattat agattatttt cctatgatat 240  
 tgccatggcc tacctaagag aagggtgcct gcctccataa gaactacatc acaaatcact 300  
 tcatecttat atgttccaat ggagaacggc actttcactc tgtgattgac tatcatctcc 360  
 ccttgctcat t 371

<210> 22425  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22425

ctcncgattg aacctttgan ntcgtgcatt gagcccttga agnccgcgan gtttngaagc 60  
 tacccttggg gtcactgggt tttgttgcgt ctcattaaaa gatataattta aaacaaatga 120  
 ccggccgaaa cttattttct tgatgattaa ctgaggttac aacacatatg atctattgaa 180  
 ttttatttta atggcgatta aacgagatta ccacacaaac tatcgggtga atttcaatct 240  
 aacattgatt taacgtgaat aacacttaca tgatccatca aaactcgctt aaaacacaaa 300  
 aaaaaatcac ttatgggtga agaactaaca tgaagacatg cctagccagg gagggcacc 360  
 taagggtgat acaatgaaat caagggtgca aaataaaact taccgggcaa agatccaaga 420  
 acgataaaga acggaccaag aatgggtcacc caattgtcgc caaaacatt 469

<210> 22426  
 <211> 143  
 <212> DNA  
 <213> Glycine max

<400> 22426  
 agggggtgat gcttctatgt tggcttttgg ggcttggatg gtgtggatga tgtacaacta 60  
 ttgtacgact gagggaaagc ttgcatcttg gaccccaagt ctctcattt cttactttc 120  
 ttcaccccat agcaagttca ttg 143

<210> 22427  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 22427  
 tgcactcggg agtgtagga tatatttcca ccctattaac ttcagctacg aaagggttta 60  
 ttgacaacga ctattcggga tagtgctcgt gttttttgtc ctagacaaaa tggtcactaa 120  
 gatttaattt ttagaaaata tgcattgtgc ctatatggc catgtctttt ctggtggaga 180  
 ttagatatat ggtatttgc tttttctttt aaagagagac gatataataa tatatttttt 240  
 aatacattta tttctaatac aatttttatt atttattaaa atttattaca aattataaaa 300  
 ctttgaacat tttacttctt atttaataaa caatactcat gattctgtaa tctgtaataa 360  
 attttaattg ataataaaaa tctgttttaa aagacacatg ta 402

<210> 22428

<211> 385  
 <212> DNA  
 <213> Glycine max

<400> 22428

agctttataa ggcggtttc tgtagacaaa ggtcaagcgt tcgcgatatg cgaagatgat 60  
 atttcgagta ctttggattt ggtacgacta tgccctcctg atttccagct gggaaattgg 120  
 cgagtggagg aacgccccgg catttacgca actagcataa tgtaaaccctt tacggtttta 180  
 aaagctctat agttgggcct aggctttaga gtttttcctt ttgttaaggc tttgtgtctt 240  
 ttgtttttga atttataata caaggatctt gcttcatctg ttcttgggtct ctaccatttc 300  
 tcattcattt gcatgtttac ttctttttct gaaacggcag atccgatgac gaggcccccg 360  
 aaggactaaa tacctgggac ccgtc 385

<210> 22429  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22429

tgattatgat ttgattntag ttntggtttc acttggttat tttccatctc attaaaagag 60  
 aactttcaaa gtaaataacc ggttgaaact tatttttttg atgattaact gaggttacia 120  
 cacatatgat ctattgaatt ttattttaat ggcgattaaa cgagattaca acacaaacga 180  
 tcggttgaat ttcattttta cattgattaa gtgtgattac aacttaaatg atcgatcaaa 240  
 actcgcttaa aacaaagaaa aagatcactg atggtagaag aatgaagatg aagacatgca 300  
 aagcaaggat ggaccctaa ggggtgcatag aatgaattca aagcttcaaa atagaaaact 360  
 aaccgggtcaa agatcgaaga acgataaaga acggacgaag aatgggcaca gaattgatca 420  
 c 421

<210> 22430  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22430

agcttctgcg aaacgattca tgcaacttca gaattctact ttcctcctct acagaaaatg 60  
 tttgtatatt gagatcagct ctaacatagt tttaaactag tgaacaccaa tttcatgaaa 120  
 accattttca gaatgctagt gttcatttca atttgtactt tgaaatagtg aacaccataa 180  
 ttgtgtcgta cttgatcatt tacctcacca acaaccaagg cctctcacia gctaagggtg 240  
 ctccgcacat taaggccctt ctcagattaa tttctacat ggctcttctt ctcttccacc 300  
 tctttcttca atcatcaaca cctctttctc agattaattn tagccttnt ctttgttgtt 360  
 tttcaagttg gtttgttggg gattntatt 389

<210> 22431  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22431

agtctccttg caaggaactt cctatggngg ggtgtttttg gcattttaaa atcccttggg 60  
 tgaaatggga agtagtttgt ctctctaaga ggatgggggt ctaggaatca aagatatttc 120  
 taaattcaat acagctctga tgggtagatg gatatgggct ttatcttcta atcataatca 180  
 gctgtggggt agaatcttat tgtctaaata tgggtggatg tcagatctta gcagtgggag 240  
 ggataaatcc tggcagtctc attggtggag ggaccttca aagttatatc aacagcctga 300  
 gttcagaatt atccagcagc agatgggatg gaaggtggga ggaggggaaa aaataaaatt 360  
 ctggacagat aattggttgg gggaagaata taaacttgaa cagcaattca atcagcta 418

<210> 22432  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 22432

agctttcttc actctctcct catttatgtc taagtgtgca taaaaaaact atgtctaagt 60  
 gtaaatacaa ggtgggggtt taccctaacc tttgtatttt aagttatcta caacactatt 120  
 tgccacacat tatagcgtaa tatgtcttcc ttgccaaaca tcttggcatg gtgttagtcg 180  
 agtccgtgtt tgagtatgac aacatatgat gataacatcg ttgagcctct ttgacatttc 240  
 aagaagggtg tgccctctga catatctaca tgtctgtgtg atttattgcc aacctatctt 300

gttaggtatt agaggtaggt atacttggat gagaatgaat gggcaatctc tatagaggtc 360  
 atacattgta cttgtagact tgtcattg 388

<210> 22433  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <400> 22433

cgaagattag taggagtgtc aaccactggg atcgatgtgc tttattattc atttgtcatt 60  
 ggttgaatat tcaccactca aattagtatt tagtttgggtg gattgggtcat attgagaggg 120  
 tttatccata tttgtgggtca attcacaaaa tccttatcct agttgtgatg acctctaaaa 180  
 cttatttttt gattttctta tcgaggattt taaatcctaa gcaaagggtga tcatcatcga 240  
 ggacgggtgtt tgacgaaaaa ttgtctgtgt tttaaagtta agaagttcca gaagaacaac 300  
 ttagttgaat ggaattgatt attctctagc aatgaattaa gacacggaaa tacaatcatg 360  
 caagctaata atcaacaatg taatttttca aaacttcatg tgcattgctc atggaaagaa 420  
 aat 423

<210> 22434  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <400> 22434

agtctataag aacaaaattg ccttaatcat ttccaaatat gcatgtgaat taggacgcat 60  
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaatg 120  
 attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180  
 tttcaaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240  
 aacttttatt ttcaaaacaa ttacccattt cttgaacata tcctataatt caaagaaaaa 300  
 catgcaaagt cgtacgtgca cacgaaattg acccaaaata ttaaactgaa aatccgacga 360  
 aactaacaac attaacaat taacacaact a 391

<210> 22435  
 <211> 402



<212> DNA  
 <213> Glycine max  
 <400> 22435

tgatttgtga catattgctt gacttggttt atgattttac ttctttctgt gtggaggtta 60  
 aacattgttc atttgtagc ttctgtcata agtgggtaag ccttagttat tgctgattca 120  
 ctaagtgttt gtgaaaagtc cttatagaag acaaattttg tgattcttct attttggtga 180  
 tgtaagctca tgtctgagat gattaagcat tgtttaagct tttgccatag atgggtagca 240  
 ttgaatcggt gttttgcttt tgctcttgat ggtaagcat cattgcttct cccaagtggg 300  
 taaactttga agtctcggtt ctgcttggtg gctaagggtt gatagcttct tggattgatg 360  
 attagagctc ttgtcaaagc accttggtgc tgattcgctt ga 402

<210> 22436  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22436

ttctgtttga aaganaatta gtaattaatt aatataatta aagttagaaa ttaagtgggg 60  
 gataattaag gttgattaat gatgatttag atttcataga attataaagg ggtaattaag 120  
 gagtgaataa acattttaat tcctgtcttt gtaccattt tgcaaatcaa tctttatctt 180  
 tttgaaatgt aaaaaatagt tcatatcttt acatccgata tacaataag tccctactgt 240  
 taaaattcaa tttccactgt tagtcatata tctatgtgat aagtcttagt tcatgtaagc 300  
 aaacccatgt aacaagtatt tggactgaat tgaaaaatta tgatacgtta agataaacia 360  
 atggacattg cg 372

<210> 22437  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 22437

tgtgcattgc aaattctgac cattgcccac catgactcgc aagggaatag aggtggtccg 60  
 gcatggaagg cgcaattgat tgacgagatc ctgttgatg aagttgtggg tattgccact 120

gtccaccagt accacgacag ggtggccagc gagcaggccc aataaacgca aagtctctgg 180  
 gggcaagatg acccgctaag gagtttagac ttatttgggt cgggcccggg tcaagaggct 240  
 ccacaggatc aagcgggtca ggaggcgggt tagttggcac tatatgagga gggggttctc 300  
 gtcttcgtcc atgattagca gaaaaaccct agaggcaciaa tgggtggcctc tatggtatct 360  
 ctggttcgag c 371

<210> 22438  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 22438

agttttgcag atttggtcgt cgccagtgaaggatcgatg tgggtctgaa aaaaaaaaaa 60  
 aaaaaaatag aacgcaaatt tgatcatcct actaggacga ctgataaaac tggggcaaatt 120  
 aaagaggggtg aggataaagg agaaacccat gctgtgactg ccattcctgt acgaccaagt 180  
 ttcccaccaa cccaacaatg tcattactca gccataaca aaccttgctc ttaccaccca 240  
 cccaagtatc cacaaggcc atccctaaat ctacaaaaaa gtctgtctac cgcactttca 300  
 atgacgaaca ccacctttag cacaaccaa aaacaccaac tgtcgcaacc tacccttcgg 360  
 c 361

<210> 22439  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22439

acctagcaag actcacgctg gaatcatcta cccgatttct gacggttatt gggcgattcc 60  
 agaccaaattg gtcctaaga tgataggact gacagagacc aagaatgaag aggatgaact 120  
 gatgccaca acagagcaga acaattggcg agtatgcatt gggcatagga ggctgaattc 180  
 agcaaccaca atagatcatt ttcccttgcc ttccatggat caaaggctng accgcttggc 240  
 aggtcaatct cattactgct ttctcgatgg attttatggc tgttggcaaa ttcatattgc 300  
 tcttgacgat ctnagaaaga ccacattcac ctgtccctta ggcactattg cctatatgag 360  
 gatgccctac aacctatgca at 382

<210> 22440  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 22440

gacctataaa actcagctgg aattttttga aagaaacttt ttaaagcctt caaggcttat 60  
 ataatacttg ggaggaagcc taaagaggcc ttaagaaaga atacttgaag ggaagcctgg 120  
 agaggctttg tgaagaata cttggaggaa gcctagagag gctttagaaa agaatactct 180  
 agtgaagcct aaaaaggctt tttgaaagta atcttctagt ggagcctata gaggcttaga 240  
 gaatattggt tgtaggagct tgtgtagact ttaggaaaga aagaatacca caattgggtg 300  
 cttgggtttt gtggaaaaag cctataggtg taggaactag atgtagctca ggttgggggtg 360  
 aaccatgtat aattccttgg tgtgattggt cccttcttta ttgcttcttg gttatattta 420  
 tt 422

<210> 22441  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22441

agctttacat tatagcttgg nggataatgg atgctaatag gcctaatttt gatgtcaatt 60  
 ttaacactat tttggatttc ttttcattat gtttcacctg tctactaact aaaatagcat 120  
 accccaatca tacttttctt tgataccctt tgaattacc aacttctaata tttatgggtt 180  
 gcagcatttg tagattgtaa aattgcaatg atttcctact tctaatttct gtcatgcccc 240  
 tttggagata ctcaagcaaa aagtgatatt accttgtaaa actatacaag ttcataattt 300  
 aatagcccta atacatttca ttctggactc ttaaattctca naacatagag attccctggt 360  
 tctgtattaa gtccat 376

<210> 22442  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 22442

tataagaacg aaattgccta aatcatttcc aaatatgtat gtgaattatg aagtatcaac 60  
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaacacac caaaagatta 120  
tgatgatgga tggcttgaat tctcacaag gtaaacttat cactttcaaa ttgagcttcc 180  
gaaactatca tgacatgtaa aggaaaaaca aggatttcaa gtcacaaaat gtcaagagac 240  
ttttattttc agaacaatta cccattactt gaacatatcc tataattcaa agacaaacat 300  
gcaaatttaa cacaacaaaa ctaacaaaat taaactaaaa cccaacaaaa ctaacaaaat 360  
taaactaatt taacacaact aacaaaatca aaaccaaaga acacactccc ccccat 416

<210> 22443

<211> 412

<212> DNA

<213> Glycine max

<400> 22443

tctcaaccgc cttgtctctg tgccttctc caccactccc aacccactc tagtccctcg 60  
ccactccacc tctgttctg cacaatccg atatgcccc tcaccgtatg aggatcctgt 120  
cgggtgcctg ttcaaactca ctcacacggg ttcagtgcta acatacctga aggagtccga 180  
agacttggct aatagaatta tcggcttgcc gaccccttc ctgttgctt gcttcatctc 240  
gggtttgaca tcggagatgc gccgcacagt ccaggccac cagcctatga ctgtggacaa 300  
ggccgccggc cttgcgaaga tctaggagca gaagctatcg aaccttcgtc tgcctccacc 360  
gcggtgcga cccaccgtt ggtagctcca ccgccagccc ctttggttcc cc 412

<210> 22444

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22444

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ttgcttaaat ggaactcgac ttgcatgttg ctaagatggg attgcgga gcatgataga 120  
aggacgaccg ttctagcatt gggtgcgcaa aatcggcgga gaatagtgat atttatttac 180  
cgacatctca tcatagttct ttctaact attatttata aatcgactgg gaagcgacct 240

cgtaaataac actgatctag cagagagtaa agggaatagc tacacataac tctgaatcat 300  
 agagtccctc ccatagctcg tatgaactag ttatatgacg ctaaagccgn gatggacctt 360  
 actacagtat c 371

<210> 22445  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22445

ttattatgcc ctctctccct cggcggggat ttcttcttct gcgaaggcga gatagttggt 60  
 ggcagtgata ttattgacca gccctccgaa accttctacc gagatatctt gggccacgtg 120  
 ggcctcgttc aaaaccttca ctagcagagc ccgatgaggc tcggagctca tgagtaactc 180  
 caacagcgag accctggccg gggttttggt gagctgttcg ataaccttga attcgctctg 240  
 ctgaattata cggaggaact cgctggcttc ctctagtgat acctcctttn taccatcctt 300  
 tttctccgga agaccttttg ccggaatata tttattcgaa gcatgggggtg cttegccatc 360  
 ttgttccctc accactttcc cttttccctt gacgttcgcg gg 402

<210> 22446  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22446

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 cgcttaatgg aacaagactt tgctgttggt attgtcttaa taattactcc atgattggcg 120  
 gccgattgct aatgctattg ttggttaaga tttgtggaag tggaggaatc tttagctcgt 180  
 caactaccaa aggtaaataa caactttggt atataccagt cctctgggaa gtgaacttaa 240  
 atctagcact gattcttctt atagttcatg atctatttac tttctcctct gatactttgc 300  
 ttcactcttt tgtaacgttt gtttaattta tatgatgcta agtgcagttt gtgtgtaaca 360  
 acactaacc 369

[illegible]

tgtacgcaca	tcgttcacgt	gtattatata	cactccttat	ggtttgaagt	agaggagagc	60
ttcaacccta	taatgcaacg	tggcggacaa	aagtgggcag	taaacttgaa	tggtcgtcat	120
tgtcaatgcg	gaaggtattc	tgcgcttcac	tatccatggt	cacacattat	tgcagcttgt	180
ggttacgtga	gcatgaacta	ctaccaatat	atagatgttg	tttatacaaa	cgagcacatc	240
ttaaaagctt	actccgcaca	atgggtggcct	cttggggaatg	aagcggctat	tcctccttct	300
gatgacgcat	ggacacttat	ccctgaccca	actacaattc	gtgcgaaagg	tcgccccaaa	360
tcaacaagga	taagaaatga	gatggattgt	gtcgaaccat	ctg		403

<400> 22448

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gctggttagc tgagggctta tggatctatt ttccatcata gcttggatgc tactgtgatg 120  
tgatgcccg agtgagcact atctggacgg gtgtcttagc gatcacttcg atttgccttg 180  
aatgcagagg accgttcac accactgtca gaaacattat tctgacatgc aaacataaga 240  
caatgtgcac gtcagaaaca ctagacagta gacacagaac tggaccttta tta 293

<400> 22449

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ctgccctttt	ctgatcgttg	gaggatgcat	tgaagacaaa	tgtttcattt	tgtctttttgc	120
tacaggcgag	tgcaacacac	acgtattact	cttgcatatg	tgtcactcat	ggagtgggcg	180
tgtactgaag	attcaatacg	tgggtgagtg	gagttgcatc	atgggtttaaa	aaattaaggc	240

accattttcag cttatgcaag ttaccgaaaa gtcacgcctc tacttttaa at ggagtgaaa 300  
 tttgattttt tategtcacc attttcgaat ttctgcttct tctggatata agtgtagcaa 360  
 catttaaaat gtttgatcga tatgttcac c aacttctaaa tag 403

<210> 22450  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22450

agggtgatga tgatcntaga cgnaccacata tataactaagc gccgtccgca gatccctcaa 60  
 gtgagactag actcagcttt agtttctcac caacgcttag cctaataagag ggtaggcttc 120  
 atccgcagat gcctcctgtc cgactaggcc tatactcaat agccctattg gaactacgat 180  
 aagtctacca aaacttaacc cgcagattcc tcatgtaaga ttaagcttag atactggctc 240  
 ggtcaagatc taaggctaca gtacatttcc caatgctaaa gtcacctaac tgtgcatata 300  
 aatgagtgat cagacaaaaa gcatactaac actaaacatt gaaggaagca ttgaacactc 360  
 aacacacgat caattagata ttaagtattt acatcaactg ctcataagaa ataccaact 420  
 aggggtggtta gctagggatt acaaagagac cctaaacata tgagatttaa agcacgct 478

<210> 22451  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22451

gggcgcttga tagtcgttga cggcgacaaa ttacaaacn ccgcggggga tcgaaaaaca 60  
 ggatgccccaa gcgccattan gttgttggtt tatcaattgg acgccaggag ggggtatatg 120  
 accatacctc aactgcttca gtatggactc atccatattc tcacattaca atgcatggag 180  
 gcgcccacat ggcataaata gaggaatac tntattagga gccaatattga tagaaaatat 240  
 ttggcccttt cttttatgaa tgatattaca tttatcataa tcaaagatga ctatataatt 300  
 tttatgaata agctgaccaa cacttaaaag attttgagta agacctgaca cataaaaaac 360  
 atactggata tattgcttgc taccattttg agttataaca gcaatggtgc ctcttcttc 420

aactgtttga acatttgcac caccgagtgt aacttcgaat ttattgtcgc attcc 475

<210> 22452  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22452

agcttgtaga ttctaagcac cttgtgagca tgggaactta tacggcttga ctggctcaaa 60  
gccaatgata atactaccaa cgacactatg gatacatcgc atcaaattggc ttcccatagg 120  
tcttgcatgt gataatgaca ggggtttacaa gcataacctt tgctaatact atagccttct 180  
gcaatgcata atcacttggg gcaactgaata catgtttctat gtcagtgcc ataccaaggg 240  
caggggtggc accaactg gggactgcat ggctcaccat ggtcagcatt tctggagcgt 300  
tttactgtat gcaagtgan c ttgcatgttc tctcatc 337

<210> 22453  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22453

aagagcgatg ttcattgattc actgtacanc nctnaatta gtaaacancc cgccgaanna 60  
nggnacacac cttntgagac ttgttttttt attttcacac gcattttactg cacagtatgt 120  
tggtatattt ctatttnggg aaaacaaaca cctanaatca tactaaacat gaaacaaact 180  
tgtgcattct aatcctatgt tcttgtcatt tgagaagata ttattgatgt aaagaatgag 240  
tgtgaaatcg ctgataagag aaggaattcc cttttttgtg taagaaacta tcattctttg 300  
cttttaataca catttatagt taagggtttct tatgcatggc tgtctaaaca ccctagttgg 360  
ggattttctaa tgaacaattg atgtaaattc atatattctat tgaatgtgtt tatgtgttca 420  
agctgattca nagcttatgt tagttgcttt ggttgatag ccattggtgc acattagggg 480  
g 481

<210> 22454  
<211> 399



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22454

agcttttgaa atttatcttt atcactggta atcaattaca gganactggt aattgattac 60  
cagagagtaa atactctggt aacttaaaaa attttgagat aactcttttg aaaaacaaaa 120  
ctgtgctatg tttgggtttt gaaaaatcct tttcaatact taccttgtga agtcttcttg 180  
atttcttctc ttgaatcttg aattcatctt ctcttgaatc ttgaaatcaa cttctcttga 240  
attcttgaat cttcttgatn tcttctcatg aatcttgaaa ttaatcttga tcttcaactt 300  
gttgactcaa tcttgaaatc attcttttgg gcttttttca tcatcaaaac tacttgattc 360  
atacttgaat catcatcatg aaacttgctt ctacacgat 399

<210> 22455  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22455

aggggatgtc tagacatgac accattatta acacggcccc tgcactgtga actaataata 60  
gttggttgatt ctgttggtgct caaagtctgt ggatgagagc aacaacttga agactttgga 120  
gtaaaccttg atcacattcc tctaaaatgt gacaacacaa gtgcatcaa cctaaaaaaaa 180  
aaccttgatc tgcattctag gactaaacac atagagataa ggcattattt tcttagaaat 240  
catgtgttaa aaggtgattg ttgtattgag ttcattgata gtgagcatca actagcagat 300  
attttcacta aacctcttgc tagagatagg ttctttttca ttagaaatga actacgcata 360  
ttacatgcat ctagcataga atgatattct gtttgacag tgtgtgtgat tgacattgct 420  
actcatataa tatctttttg tttagtctgt gtcacaagtt n 461

<210> 22456  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22456

cggcgcttta tgagtcgttg actccggacc tatgaaactc cgctgatgac cctggacggc 60  
aatcaatggt attagtngt ggatatacaa tgctaacaag aagtaggatt taatagttaa 120  
aggaaaatgg cacgaaatgt aatttcacca ttattcaatt tataattctg aaaggccaac 180  
cattagttca ttacaaagta attacatggt tttccgtaac aagaaagttg cttggctcca 240  
acagattttg tggtagagtc attccatcat acagcttgcg ggctacaaaa ataaaacaaa 300  
agctttcaac ccacaaacat catcaatcac aacaatctaa caatttagtg tcattcattg 360  
aacatcaaac gaatacatc ctcagaccaa caccaactat gccaaccgta aacgcaaagg 420  
tcaaaaaggg aggcaaatgg tactataaac acatatctca ttgaggagag tg 472

<210> 22457  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 22457

agcttcttat aagctgttcc attttatcaa tagacacatg ttgagtttta ttcagaaaat 60  
tagagtttat ctcttttata ttagtgagag tgattctcct aaattcttga gtgattcaag 120  
aacaccttgg ctgtatcaaa ggactttcac aacctttgtg tgttgccctc gctggaaaga 180  
gtgattcttt ccttcctttc atcatcacc ttgttctttc aaaccacaat tccagataat 240  
ccacctctgc ccagaattat ctctgggcca taacttccat tttacgcact ctaattaagt 300  
gattcttgag cctaaattga acttcaaacg agacctttca cctcgttctg gaatcacctc 360  
atttgagacc ctgtagcttc agtta 385

<210> 22458  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22458

acacatagaa tactaagctt ctattaagct gaaccattga tcaataattt caagttgagt 60  
tttattcaaa gagtagagaa tatctctttt gtcttagaga cagtgatact actaaattct 120  
ggagcgattc aaaaacaccc tggctgataa gaagacttac caatctttgt gtgtagccct 180  
cgctggaaag agtgattcat tacttccttt catctatacc ctgggtcttt ctaaccacaa 240

ttccagagaa tccacctctg cccagaatta tctcgtggcc ataactcccg ttttacgcac 300  
tcaaattaag tgattcttga gccttaattg aatttcanaa cgaaacactt cacctcgttt 360  
aggaatcacc tcatttggag ccctggagct caagtattgc catctctata 410

<210> 22459  
<211> 538  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 22459

aaaggggccc acaagcacgg aacgagaaac aacaggaggg agaaaaacac caaaaaaaaaa 60  
aaggagaatt gagcgctgag ccctgacacc naggcgaanc nnacgcgcac ccgggaacca 120  
cagagccgcc ggcaggcttg caagcttgct aggggcagag agaagggaca ccgggacaca 180  
acagaacaca caccggaac aaggccacgc caaagaaaaa cacaggagcc aaaaggccca 240  
gcacgggaaa aaaggccgag aagcaccgaa gaggagcaac cngnagcaga gacaccaacc 300  
gcgacggaag ccaaggaccg cgagcggccc caccaaaaag gcaggcngaa caccgagng 360  
ggggagcccc aaagaacaac cgacggaac acaaaacaac caagagaaag cgaggacgc 420  
aancaaagcc gcaaacaag cgcgaaagac gacagcccag ggccgaacac ccagacggg 480  
ggcacacgag gcgacgaagc anggagaaag gaacggaagc caagacaacg aacaaacc 538

<210> 22460  
<211> 330  
<212> DNA  
<213> Glycine max  
  
<400> 22460

gctcaagatc acaatattca aaatcacct caacagaatg ctcaaatgc acagaatgac 60  
caggatgcac actacgccta actaatctat gaaaggttct atctatttca ggatcaaagg 120  
gttcgaaatc acctggattg cccctagtca tgcactatac gcagcaaaaa atgtgtgtct 180  
cagcaaacac ctaacagggg gtaaaactac agctatactc aaacgatatc aaaatgagct 240  
gatatattgt gaggaacacc ctaaaatcat gacaagatag ccataaatt ttcatacaaa 300  
aattcaaat ctaactatga gaactaccta 330

<210> 22461  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 22461

tttgcaagct tctttcgaat ttcattagtg actgattgct acatcgttct tcattcatcg 60  
 accaattagtg ttttatttta aagttttgaa tttgctctat gcaccttttag gggtcctttt 120  
 tgttgatttg tacatcatca tctatattct tctaccatta gtggtctcat ttctttgtgt 180  
 aaagcgagtt ttgaccgatc gtttgtgcc taatctcact ttatcattgt aaaataaaaa 240  
 ttcgaccgat cgtttgtgcc gtaatctcgg tatgtcaatg taaaataaaa tttaaccggt 300  
 cattttacttt gcagttgtct tttgtgagat tgaagtatat aagtgaacc 350

<210> 22462  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22462

taaagtatgc ctgagtaatt catccctatg atatgctttc tatgtattgg cgancanaat 60  
 cgccatgcct tggattatag ggatgaacca agctcacgct tttaaaaaa ggttcatcaa 120  
 gtcaagttga aatatgcgta gtaaccgtct tgcaaaattg cggcaaaaga tgaatcgagt 180  
 cacatcactg cttcgtctac tggccaacat atttacgatt actgatgtgc ttgttactta 240  
 cagcttcacc ttgacaaaga tgtgatggac cactgggaaa aactatatag attcaacccc 300  
 atatcttgcg gacagatgcc cagtactata actgcacatc attcgcatgc gttcatgctc 360  
 ttcattgggtt gcaatgctcg tgcattcttc cttgaaaaaa gataaatgac 410

<210> 22463  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 22463

agcttttatac acacaaaata ggagaaagct ttatacggaa aaaaaagaag cttaaatggt 60  
 aattagagtt caactcttaa aataagataa cgcacctaaa ttttatcctt tctaaacagt 120

tgcaggctcgg agtagataaa ttggacaaaa atttagacat tggctcaatg gctccattta 180  
cccattaatg atgctaataa tacaagttgc ttcttgaagc cttgttttct atgaattcgt 240  
gggcatatct ataatctata tgcacattaa tcgaagcata tacaagaatt ctaaatagag 300  
taaactacta ttccctgaat gtagcaagtg gaactggtag ctcttgaatg tactaaagaa 360  
agtacg 366

<210> 22464  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22464

cttgctgctg atagtgggtgt ttcaccacta gattatcnat aagtggattn agannctatg 60  
aagaagagat tgcatagaaga gaggggtcacg cataaagaag ccattaaact tgttcgtgat 120  
gcagctaata atagtttaca agctgggttta attcctatct ttaagacatt ggagagtttc 180  
acttcagagg tgggtgaaagc tcatgaacaa gtcaggcttc aaagtgctgg ggactcgtag 240  
agattccagc tatttggttt cttttgaggt catagtgatt gcatttacta gtgtggattg 300  
attgggggag tttagagagt acatggaaga tttagaacta acccaccagt tttgcagcta 360  
gagttagtct tattatgtag gaaaggacct cttgaattac cctaaagagg ttttcttggg 420  
acatgt 426

<210> 22465  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22465

agcttgctga gattaagaac cattttcttc aactntgaca aatgtggatg accctagcga 60  
tcatgcacaa gtttatgaga cagcgatgca aaacaagaca tagactggct ggtttcaaga 120  
tagtagaggc ctctagattc atgtcctatg ccaatcaact gaccacgttc ttgtacaaca 180  
aaggaatcaa catcaaagt tatagaacaa tttaatgatt ttgttagttg actaagagaa 240  
actaagttga aaggacaatt angaacaaaa agaactggat ccaagtttaa agaagaagaa 300

tgaagacttt gccgactcct ttagaggtga ctttgggtgcc atttgctang gtgatcagat 360  
gaaagaaatt tggaggagac agaggtgagt acag 394

<210> 22466  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22466

tcatgatgaa tcaagattga ttcataataag ttttgatggt taaaaaggtg atgaanaaaa 60  
gctcagaggt caagaacact tcatgataac aaagatgatg atctcaagaa tcaaagatga 120  
gttcaagatt gaatcaagaa cacttcaaag ttcaaagagg aagtttgatt tcaagaatca 180  
agaatcaagt ttcaagattc aagttccaag aatcaagatc aagattcaag actcaagaat 240  
caagaaaaga cttaatcaag ataagtatta aaaagggttt tcaaaaactg agtagcacat 300  
gaatntttct canaaccttt taccaaagag tntttactct ntggtaatcg attaccagta 360  
gcaaatggt tttcaaagc tttcactgaa ttacaacgt 399

<210> 22467  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 22467

agtttactgc ttgcatgcaa gcttgtcgcg tcaaatgatt gtttctggag aacaggatgg 60  
atatatacaa gagtgcagca ttctgtagct tttctgtata atggtttgct ctctatctcg 120  
gcatgttgct tgcattattc tcaattgatt atatttcaat tagcactaaa atcttctatt 180  
atcttattta gagtatattg catttcataa atctctcctg caggtcaggt ggtcttagat 240  
gcaccattgc gcctcagaag tccgcaaagt tgtcaaattt tatgcgttaa accacttgct 300  
gtttctgcta gatcttgctg tcaatttggt atgaaaggat tcaatttttt gctgtctaac 360  
tcgacgtaaa tctctatacg cttgatgat 389

<210> 22468  
<211> 429  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22468

tggetctgcc ttatgcttct gctctcattc tctattctat tctgaaatcc tccaatgtac 60  
aaggattggg ggacatatac acccaatgct tgatgcaaga tctttatcat ggttgggcca 120  
aaatcccaca tcttagctct ccatectaaa gatttcatat gactgaccaa aactaatctg 180  
gctagtgggt ggaaattact tttttcactg ctcttgattt tctttatttc atgcattaat 240  
gtttgtcatc ttcaactttg gcatgtgatg ccaaattgga ctggatccac aagattatcc 300  
tgngtttaat tgtgcaaaat tatecttaga tttttttata gacatctgga agcaatttat 360  
atattttaga atgatgggtg tcttactgag gaagacaatg aaaattccag tcttccatta 420  
atgggtttac 429

<210> 22469

<211> 407

<212> DNA

<213> Glycine max

<400> 22469

agcttcgtcc tctgatccct cttgttggac tgggctcaat ttagacagcc cttctaagtt 60  
tagattaact taacctaagc ttcacccca gatgcctctt attggactag acttagctta 120  
aatagcttac gaaagttttg cctaatttag cctaagcttt gtcctcagaa cctcttggtt 180  
ggactagact tagaccaaac aacattattg taatagcata cttaaaacca aaacttaatc 240  
cgcagattcc tcttataaga ctaagttcta attctgcttc attcaagttc taaggcaaca 300  
atacattttc caatgttaaa atcacctatc taggcacaca aatggttgat cagaccaaga 360  
gcatacaata ttttaagcatt gtaagaagca ttgaacacaa gatacac 407

<210> 22470

<211> 432

<212> DNA

<213> Glycine max

<400> 22470

tgtcaatggt tgaaatttct tctttggtgt tgaagaatta attattatgg gtttagtgaa 60  
gttggaatgt tctaactagc ttgttgtgca attgtttcct tgccttaaca aagtaatggt 120

tgaatgtatg cgttttaggaa cccattaaga taatgttttc ttgtttatgc tccctagtgt 180  
tctctgtctt ttcttctttg gtgttgaaga agttagtatt aagggttttag tgaagttgga 240  
atgttctaac ttgttgtgga attgttgact tgccctaaga atcaatttga cttgcgctta 300  
gcttgttgga aacttcaatc agtagataga ttcaaacttc ttgtttgaag tatttcttca 360  
gcctgttgca tgtgttactt ggagtacaaa aagtacaact attgacatga actttgaata 420  
agagttagct tc 432

<210> 22471  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 22471

agcttatgct gcttatattt acaatagacc tcctcaaact cagcagcaaa atcaaccaca 60  
acagagcaat tatgtcctct ccagcaacag atacaaccct ggatggagga atcacccata 120  
cctcagatgg tccagcccta agcaacaaca acagcagcct gctccttctt tccaaaatgc 180  
tggttgccca agcagacat acattcctcc accaatccaa caacagcaac aacccagaa 240  
acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300  
tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360  
gatgggacaa ttggctaccc aattgaatca acaacagtcc cagaattct 409

<210> 22472  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22472

tcaagaaaag gccaaactcc cctcagaaat ctgatnttat gcttttatag gtggctatgt 60  
ncatgctcat gctcttagca taattctgaa ccgcttagcg cgcattagtg aattttggct 120  
tagcggggct tttctcgctc agcggatgga ctgaagcggg gcgcttagcg ggatgacat 180  
tcgctcagtg aatatgcata gctcatcttc cttccagatt cttcctcatg ctgagccgag 240  
aagtgttgcg cttagcggat gtctccctaa gccagaagat tggcttagcg agaggggtgaa 300



aatcaacact tcaaaacttg cctaattaac ctgaaattga gagaaaaatt attattaaac 360  
 acacaaaaat ggaagtacta agtatttatt acctaccttt aacanaaagt aattacaaca 420  
 ctacaaaata cc 432

<210> 22473  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22473

agctttatga tgtatcaaga ttgattcaaa gagttntgat gataacaaag atgatgacaa 60  
 aaaactcaaa agtcaagaac acttcatgat aacaaagatg atgatctcaa gaatcaaaga 120  
 atgagttcaa gattgaatca agaacacttc aagggttcaaa aggaaatttg atttcaagaa 180  
 tcaagaatca agtttcaaga ttcaagacta aagattcaag aatcaagaga agactcaatc 240  
 aagataagta ttaaaaagtt ttttcagaaa ctgagtagca catgaatttt tctcaaaaac 300  
 cttttaccga agagttttta ctctctggta atcgattacc agatgggttat aatcgattac 360  
 tagtagcaga atgggttttca aaagtcttc 389

<210> 22474  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 22474

atctccagca tagtcaacat cacagtagct tgtgagtcca aaatctttcc ttctttttaa 60  
 gcatagacca aggttataag ttccaataag atatctaaaa atgcatttaa taacagataa 120  
 aaggactttc cttgggttctt tttgaaacct tgcacataag taaacactaa acattatatac 180  
 aggccataac gctataaggt ataacaatga tccaatcatt gctatttatt gggttttgtc 240  
 caactttttt agattcttcg tccaacccta agtatctagt tggatgtata ggtgtctcca 300  
 tttcttttgc attgtccacg ttgaacatat ttagaagttc tttcatatac ttgggtgatgc 360  
 aatcctaccc cgcaaggcca ttgggtagaa gacttccagt aaattggcta gagatccaat 420  
 ggaacgccct atgggtt 437

<210> 22475  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 22475

agcttttatgc atcattcggg gaggctaacg agacaacgag atgatgctgct ccatgagatg 60  
 ttgcatcaaa tggagaatag agatcataat gaacaggaaa ggaagagaaa agggaaatgat 120  
 ggtgttccta gacaaaaccg aattgatggg attaaactca acattcctcc atttaaagga 180  
 aagaatgatc cggaggccta cttggagtgg gagatgaaaa tagagcatgt tctctcatgc 240  
 aacaactatg aggaggacca aaagggtgaag cttgccgcca cggaagtttc cgactatgct 300  
 cttgtgtggg ggaacaagct acaaaaggag agagcaagaa acgaagagcc atgggttg 357

<210> 22476  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22476

gggctgtgct ctgcgcctc caaactaagc tgcttgaaaa ttttatttta gatatgaaac 60  
 ttcataattct atcatataag aattgccagg gaagtggatc ttttatacca ttgtattggc 120  
 taatacattt gcattttgag tatgttattg acatccgtgc ttacatatta tgacttaata 180  
 tttttgtgct atttgcatt tgacatgcta aagggttatat cagcaacagt agcaagtgat 240  
 ccacagaaat attgtgaagc atttcttggg aaaccaaacg ctgagtattg taactggatt 300  
 cttgactcgg agaagtgggg aggttagttg gccatgncc ttctaatca aggctatattt 360  
 aaataaaatt tttaatggaa ataaatacca ttttctctgc tgcaattgga aactactttt 420  
 ggtgttactg ggtgaatgta tgaatgtcaa tcttt 455

<210> 22477  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22477

agcttttatga tgatgaatca agttttgatg atgacaaaga tgatgacaaa aagcccaaac 60

aatgatttca agattgagta agaattgattt caagattgag tcaacaagtt caagatcaaa 120  
 tttaatttca agtttcatga gaagaaatca agaagattca agaatacaaga gaagtttgat 180  
 ttcaagattc aagagaagat gaattcaaga ttcaagagaa gaaatcaaga agacttcaca 240  
 aggggaagtat tgaaaagatt tttcaaaaaa ccaacatagc acagttttgt tttccaaaag 300  
 agtttttttc anaatcttct aagttaccag agtttttact ctctggtaat cgattaccag 360  
 tttcctgtaa tcgatta 377

<210> 22478  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22478

tcaagaatca agatcaagat tcaagactca agattcattt atttttatat tatttaatca 60  
 agataagtat gaaaaagttt tttcaaaaac tgagtagcac atggattttt ctcaaacct 120  
 ttttaccaaa gagtttttac tctctggtaa tcgattacca gactattgta atcgataacc 180  
 agtagcaaaa tggatttgaa aaagtttttc aactaaattt acaacgttcc aattgatttc 240  
 aaaaagctgt aatcgattac aatgttttgg taatcgatta ccagtgcctt tgaaagttga 300  
 aattcaaatt caaatgtgaa gagtcacatc ctttcacata aaatntttgt gtaatcgatt 360  
 aactgattt ggtaatcgat tacttgtgat tgtttatgat taaatcaaaa gatgtaactc 420  
 ttc 423

<210> 22479  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22479

agtttgcaag cttgctccag aacacaatga ntgcttacag gtaatggaag gaggccaaga 60  
 tgttctgaaa gtacgaacca aaacataaga tcacccagtg aggtaaaagc gtcaagctaa 120  
 tgacgctaaa gaagcgtttc ctgagaggca acccagtctt aaattctgtt atctttgttg 180  
 tctttcatgc aattaaatca tctaaaacat gctatatagt ctgtacatag tagtatatct 240

gccaatcttt ggatgttttaa cataaggggt tcaatttctt ggaaaaagga gtgaaaataa 300  
 cttataaaaa tattttctga aaaacagtcc ttctgctaag cgcattgcctc gcactaaaag 360  
 catctc 366

<210> 22480  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22480

caagaaaggt ttagtcattg tttaaaaacg acttaaaaaa aaaagtttaa aagttgtata 60  
 agctctgttt gtactcggag aacagttatc ctcacaatat ggcaatatca ctcccccaa 120  
 acatatcatc cacaattgta atattgnaca acttcaacat gatcttctgc tccacctaga 180  
 tateccacca acttattgat gcgtgtacat aattccotta taacctcact atcaaattgc 240  
 atctgaggat tgtcattgaa cttaacattc taaaattgga caaccacatg taatacgtga 300  
 tgaagttgga tattccatct tcgttcaatg attcgaacac ac 342

<210> 22481  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22481

agctttaaca tggtttatta aatgttaaat cggatatatt atcagaaata acttccaaaa 60  
 tcctaagaat ttaaattaat ttattaaaaa atttcaaaat aaaagcttat tgaaataatg 120  
 caatgaaaat gttattttgt ttgataatgt ataatgaaat catattccat tgtttattat 180  
 acaacaaaat tgtatgtctt tcttatatta ttcaatgaaa atttgatttc attgtacaat 240  
 attaaaataa gttgggtgtt tgaaaaaaaa gaagacaaaa gtaggttcca ttgcatacct 300  
 gtgcaacgat atcataagtt tgttggtgtt aagttggagt gtgnaaaaat aattcaacgg 360  
 aacaagattg attacatatc tatctatgta tgaa 394

<210> 22482  
 <211> 342

<212> DNA  
<213> Glycine max

<400> 22482

ctttccaatg tgtggctgaa ttgatcttaa tattacgatg agaagttaat tattgaatga 60  
atattgggcg gagaaattaa atatggagaa tcaagttggt ctagtattaa agaaaggaat 120  
gttacgtaag aatgaagcat atgggacaaa atgaaatata tcataattgt cgttttggtc 180  
aactcaagtt gatgaactga gacaaatagc acgcacaaat gggacaagct taatttcaaa 240  
cctcagttaa tacagtattg gctgtggaaa tgaaatgagg gaagtcaggt tggtttggtc 300  
tctcaaattg taaaacaaat tctacggaat aactgggtg gg 342

<210> 22483  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 22483

tttgcaagct tgtccaaaaa tgcacgaggc aatatttgta taaagaccca aaaaatttgc 60  
acttaagtga gtgtttgctc aagccaaaaa cttcatgttt aaacagatac tacaaactct 120  
gcagttttgt aactctgacc aaaatcagtt taagccaaag ttgttttgct taagctaatt 180  
ttcctctgca actttctttt tcattctctc caaaaaagaa cttcaatctg ggacctctaa 240  
tcccaactta agcacatttg agttgaaatt gtcacttcaa gctttcattg aaccttggtc 300  
caaaaaattg ctattcaatc caattcaaaa atcctacata aaggccatc aataagcatg 360  
tgaacta 367

<210> 22484  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22484

tgagtcgctt ataattgagt tggcatctta ctatgtgtct ctgtcaatga ctcaagctgc 60  
ttagctagca gtttgttctg tgccaacagt gcattctgtg aagaaagctc taacaggctt 120  
ctttttgtag gtatatgagt ccgatcacgc aagatagcat gatcagtagc agccatattt 180

tcaataagct ccatagcttc ttcaggagtc ttcaatttaa tctttcctcc agcagaagca 240  
tctaataact gcttggacta tgggtctcaa ccatctataa aaatgttcaa ttgaatcggc 300  
tcaaagaatc catgagttgg tgtctttcgc agcaagctac agaatctctc aagtgttca 360  
ctcanggatt catctgggaa ttgatggaat gaagagatag ctgccttgcc ttcagctgtc 420

<210> 22485  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 22485

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atgctaagca tagcttctgc tttttcctct ttctttttta cttggttgga ctccataaat 120  
tttgttgatt aagatgttga ttatttgaag atatatttat agcagtttgt taaatgagaa 180  
aaatectacc ttgcacatta gttgatttgg atagtattac ggatgtttct cttaggggaa 240  
tcaaattcag acaagaagtt atatataaac ttgacttata gaaaccaaac tgtgcaggga 300  
agatgatgca cgaaggatcg gttgagttgg agaccgtgct ttctttaaga tctcctacag 360  
cagatatgga aaatgatgac ttgtttggta a 391

<210> 22486  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22486

ntctgaataa ccaagatgaa agtagaaggc tgaggagtgt gatgtatcaa tacaatggag 60  
gagaactgca tataaaggca atttttttta aagcaactcg tagctcgtga tggcgctcc 120  
cccttgcaac gcgcaacctc caatggcgcg tccttgetac actgctacag cctgcactac 180  
actcagagct acgctgctgc accctagggc cttcaacgcg ccagtttgac tggcgccatg 240  
cccaagtcgc catttgctgc ttgcgactcc aatgccacgt angcacaaag gcaaggcgct 300  
gggtgggaatg gcgacaccag cgccacgtgt cacctcctcg ccgaaagcgc caatggtggt 360  
ggcgccatgc atggtgttta cgtgaaaaaa caacacccct ctgtatatgt ttagaaacaa 420  
ccc 423

<210> 22487  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 22487

tttgcaagct tcaacgggat cgacagaccc ttggcatcac tctacgatct taaatcgga 60  
 aagtttctact tggttacata ccaaagtgtg acaatccatt gccatccttc aatggggcac 120  
 acgactgatc cgaaagcctt atgttttctt actatgtaga ataatcgaat tttttttaa 180  
 aaaaggggaa aaccctagga tcaatatttc gggtgattga ttaaagtca aatggctcca 240  
 ttgtcgtcat ccaaattgt caagtgatta aacaaaacat actctttgaa ggagtccccg 300  
 aagagatttg caaaaaaaaa aaaatagaat aagggtgcat gaattatcac atcttctaca 360  
 aagaggcaat caatttgtgt tttcataata aaaa 394

<210> 22488  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22488

ntaacctcat cgtccctcac agtctttaga tttgggttct caatccaatc cttgggttcg 60  
 gactctcagc cacttatgat agtcgccgat gatccatta ctgcttcccc taagctctct 120  
 gtcctttctt cacgccgcat cccatgcctt gogaactcct tggagtaccc tcgcgttggtg 180  
 gtcactaaaa ccccgtagca tgaaaggcgt gatgctttcg tctaattggcg cttctctcat 240  
 ggggtagcca agctgtctta tggcgaggac gggattataa ttaatacaac cccttggttc 300  
 catcaagaga acatttggac atccttcgca tgaagataga atcctgattc ttccttcctt 360  
 ctagcgagga aaccaattaa cagacgcccc tccatgctag ccaagagttg gtcccaattc 420

<210> 22489  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 22489

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 tggactgacc acgcaaattc ggacagccat aacgtttgac tcggattccc gattgaagct 120  
 cataatatat ggagatggtc ttaggaaaaa aatgaagccc atcgcaaata caaacgacca 180  
 taacttttcc accggatctc cgaataagcc aagtaacctc tcgcgatgct caaaatttat 240  
 catggaagac tcgggtgaat tccgacgggc aataactttt actcggatgt ccaattgagg 300  
 ccataatat atcatcgccc tcgaatatag aatggactg accacgcaa ttctgacagc 360  
 cataacgttt gactcggatt cctgattg 388

<210> 22490  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22490

actaagcttt cattcttcat gcaccggtg gggttttattt gtttcggcat tggattctca 60  
 tttgttactt ttataccccc tgtgacgtgc ttaagccatt ttacttaagt catttctcgc 120  
 ttaacttata aataaaataa attcccaccg aacgtttgaa ttgtattatc cattaacttc 180  
 gggtaaaata aattccgacc gttcggtcgt gccgtaacca cgttggaat caaaaaaaga 240  
 ggtaaaaata atataataat caaaaacatc ttttagtaaa ataaagcgga aaatcaatcg 300  
 gacgttntct ctntgggatt tctcattctt aatcgaattg attaataact aaagtgaac 360  
 taaggctaan aatcaactcg cctagtcaaa ctcgccaca aaaataggct ttg 414

<210> 22491  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22491

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 ttcataatca tgaattggcc aagtcattag ttggacattc atatgttagg cgattgacta 120  
 aagctgaaaa gacacttatt gctgatatga ccaagtcaat ggtgaaacca agaaacattc 180  
 tgctaactct gaaggagcac aatgccaata gttgtatgac catctaaca atatataatg 240



caagaagtgc atategttct tccataagag gaagtgatac tgaaatgcaa catctaataga 300  
agctttcttga acgtgatcag tatattcatt ggcacagatt acangatgaa gacgtagttc 360  
gtgatatctt ttggtgtcat cctg 384

<210> 22492  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 22492

ctaagcttgc atattaaaac cttaatactt gtgttttaga tcttacacat gataggtttg 60  
ccaagagcat gagctcatat aatgacattg atatgaagat tttttgtgcc aaatacatca 120  
agctcaagag ttaatttgat gtatctatta ctattgcatg atttaacaac tataagaaac 180  
tatagttagg gtttagctat attgacttgt ctttcttgag ctttagataa taggggttgac 240  
tttaagcaag aaaatattgg aggatgcacg ttgcttctcc aatcatgggt gtaggactgg 300  
attacatgca tttctccata tgtgtaggta tgcaaaattg tattttttgtg gttgatttgt 360  
ttcttttata tagaaactaa aattgtgtca ttattagtgt taaaaatg 408

<210> 22493  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 22493

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ggccctatat tggaattaat agaccttatt agaactaaaa tggctctata ttgaaagaaa 120  
tttctaacta tggatcaaaa gactctgac acatcataaa taaaccatat gtttacggac 180  
tgggcttatg ctcaatccat atctcatctc tactatgctc aaatgttcca aacattcatc 240  
tcagacagaa tatatatgat atactacatc tattaagaca catgaatctt tttatgtttc 300  
attaaatata taactggtac tatacctaaa aaaactattc ggaatctgac ataattttac 360  
caagttaaag tgtgattgtg ggataagata actgatcata agctaca 407

<210> 22494  
<211> 430  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22494

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ngagaagggc ccttggccat gagtacatgt ggaaggagta aagcaacgtg ccatttatga 120

ctgacttgat cagttgaacc cgaccataa tggataagag agcgcccttc tgagtaacca 180

acttagattt tatacgatca gcaataggcc ttatatgaat accgcggggc tggcttagaa 240

aaaaggggac aacaatgtag ttaaacgaca gactggccac agcaaaacct agaagaagtt 300

ttatctactc tcaggggtga cccaagggat tggtttgggt tagatttcca agaacaaaaa 360

ataatcatct aatctagatt aacttcatca ttgtacacag tatggatcga ataatcattc 420

aaaatattta 430

<210> 22495

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22495

agcttgcttg tgtagcttct atggaggctg gatctttgag cttcaatgag gtcctttaat 60

ggtgattttc caccatggag atgcagcgga agacaaagga gaagaggtaa gaggcggcgc 120

catccactag ggaataagcc ttggaagaat gagcttcacc acccagatga gtctgggata 180

agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240

ggagcacgaa atttaaggaa gataaagaga gagaagttga actttgagtt atgtctcaca 300

agactctcat tcatcatagt tacaacaagt gttacacatt cttgtatcta tagactacgt 360

agcttccttg agaagctntc ttgagaagac ttccttgaga agcttc 406

<210> 22496

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22496

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ttctctnccg gcctcttgtc ctcatctgtg ctctcttcac gagtctcttc tccacctcta 120  
 caagtctcat ctctcttgtc atcatgagta gtgttggtgc gccgataatg agtttttatt 180  
 ttttggactc tgtttactcc attcagattt gcaatccata tgggacatgc gaaatacgaa 240  
 atacaaaata caaatcata acttatatgg attgacaatt cgtatgtttc atacagatta 300  
 gcatagattg aagttacaaa caaaataact aacctctcc gctgttgcat tgtaacaccc 360  
 accatgatga caatcacaaa ccgcatatga accaccacga acaatgcacc tcg 413

<210> 22497  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22497

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 gcatcaaaac tttgttttgt tttaaaaaat tatccattag gaaacaattg tgtgtaatat 120  
 cgcattatct ctacaatatg tcgtttcaaa tgatttcttt ataattataa agctgaagtt 180  
 ttccgaccca agaattaaag gtctccctag tgaaatatca ttctaactta cgaaataatt 240  
 tgggtcagtt tatttggtta aaagtagaga ccattgttat ctataaaaga tgaattgatg 300  
 taaataaaaa gactaaattg atcgattttt ttattgggta acaacaaaac tggttaatttt 360  
 cattttttcca cggaatatca atcttaaatc ttg 393

<210> 22498  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 22498

taaaggagaa agaagataga ggaaactaaa attagtagtg attgttaatt atcttacaag 60  
 agagttgggt attatagttt tatataattg gttgcaagaa taactaactt gtaactaact 120  
 aaactatctc ttgtaacaaa gtgatcaatc tgaattaacc atgatcaaac tatatctatg 180  
 ttaagatccc ccttcaagct aggaatggat attggatatt cctaacttgg aatacaaaaa 240  
 ttgaaaagaa tcaggcagca tggccttagt gtatatgtct gcaagctcat tagcaaaggt 300



<210> 22501  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 22501

agctttgagc cataatccta acttaccata aacottgacc cagggtgaga atgtcaatcc 60  
 ttaccctcgg aagcaaaaaa gaagagaagg aaaatttccg atcaaagaaa aaaaagagaa 120  
 ggaaaatttc caatcaaaga gaaagcaaaa aaaaaaagag aaggaaaatt tccaatcaaa 180  
 ggataaaata gaggaagga aattcccaat caaagagtgg gagaaagcga aaagaaaaga 240  
 aagaaaattc ccaaccaaag agtgggagaa agtaaaagga aggaaagaaa gctcctgatc 300  
 aaggatcgaa agatatcaga agaaatgtgc agaaaggtct gtggaccgga caatatatgt 360  
 acaatacaga attgttcacc aatgaacata aaaaa 395

<210> 22502  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22502

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 attaaccttg ggaattaaga aaaaacttaa tggctgagtg taactgagat cgtggcaacc 120  
 aaaagtcacc ctcatcagcc aacaagtcag ccaccatttg gtctcccaaa aggctgatgc 180  
 ctaggttgcc aattgggccc ttattacaac ttgaactaaa cctactaatg cccctttatt 240  
 tgattaaccc aaaacatatt tttggtcagc caactttaca aggattgggc cagtatttag 300  
 acaaaactaaa cactctaaga ttgagacata gtggtgtcat tcacacctgc tacattcggg 360  
 ccatgatata actcacatcc taggac 386

<210> 22503  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22503

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 ttaatTTTTT gctttacctt ctcttccatt gttgtttctt cttttttctc catgtatctc 120  
 ctcacatgtc ttgtgataaa tgttgtaaac atgattcttt agagtttcca ccaattaaac 180  
 ttgctataga agctagattt ttttttctat ggttcaaatt tcttggtctt gaaccatgaa 240  
 ttgtgttgag tttaggttcc tttgagtttt gtcttggtat tttttgtggc tgaaacctaa 300  
 accataaaat tattagaaaa atattaaagt agaagaaaac ctcaaaaatc tagagtgact 360  
 tgttcaccta ttgtagttnt gtcatagaag tcatgtctag 400

<210> 22504  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22504

nttctaaagg ttataactct tctaattggtt ttcttgatct gacatgaaga gtctataaaa 60  
 gcaagacctt gatttgcatt tcaacaacac ttacaacctt tacaacaac tttccacat 120  
 attctttttc aacctttaaa tctctttgaa catcttcttc ttcttcttct tcttttgcaa 180  
 aagctttctt aagttttttg gttttccaaa ccttgaaaac aaaaattgtg ctattcatct 240  
 ttttcattcc ctctccctt tgccaaaaag aattcgccaa gggctaaccg cctaaattct 300  
 ttttgtgtct ctcttatccc ttttccaaaa gaacgaagga ctaaccgcct gagttctttt 360  
 gtgtctccct tctcccttgt caaagaattc aaaacaacac agtctgagaa ttcttttgat 420  
 tcttccctt 429

<210> 22505  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22505

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 gctttaagag taatgtccca ctaaaactaa ctttccaaat gtttgcttc gcaggaatgg 120  
 ccccgaggaa gcttgctca aagaggtcca ggaaggacaa ggcggccgaa ggaactagtt 180

ccgccccgga gtacgacagt caccgcttta ggagcgttgt acaccagcag cgcttcgaag 240  
ccatcaaggg atggtcgttt ctccgggagc gacgcgtcca gctcanggac gacgagtata 300  
ctgatttcca ggaggaaata gggcgccggc ggtgggcacc actgggttact cccatggcca 360  
agtttgatcc agaaatagtc cttgagtttt ac 392

<210> 22506  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22506

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cccaatatta tgaccagttg ttgagtgct tcacctctgg ggacttccag ttatcaccca 120  
tggtggaaga gtttgaagag atcctgggat gccctctatg aggaaggaaa ccatacatct 180  
tctcaggatt ttatccctct ttagctacaa tttctaagat agtccgaatc tcgacgcggg 240  
aattagacca cagaaagcaa gtcgaaaatg ggggtggttg agtaccgacg aaatgtttgg 300  
aaacaaaagc aagaatcttg gcaggtaaac gcgaatgggc cccattctaa acatcctcgg 360  
gcttttgatc ttatgagggg tcctctttcc aatgtggatg ggttggtgga cctggcagca 420  
atcgacgctn 430

<210> 22507  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22507

ctttcaagct tatgtnatna gtccatatga gccaatgagc attatacatt ttgctctgct 60  
ggaaacaaga gaaaaacaaa ccaatatata ctttgattca aaggggtgaa caaatatata 120  
atccatatgc atcgaatata tagcatttat attcgcgagg ctgatgttct caatcatttc 180  
atggagatgt tatcatttcc cggtgaaaa gcaaaaatgt aaatactgat tttcgtttct 240  
atagtgtgct gataaaattc gttcccaaag atgaaaactt acattttacg ttctcgaaag 300  
tgaaaaagtg tgataaatat attcattcat taatttttat ccgttacaag ttatgaagag 360

<210> 22508  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22508

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 accttnggcc cactgcccc ggaacggcgc caaatttggc cgaggctgta cctgaatcaa 120  
 ataaacatta aaaatgcagt atctaggaag cgatcatagg tcgtctccca acgagcaatg 180  
 gttaacaaaa cgttcataat agatagtaat ataacagtta cgaatgggag gggggggggt 240  
 gtatattaaa cataaaat 258

<210> 22509  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 22509

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 gaaattctca ccaattcaat aaagagctca tcatttactt tcttgtatga cagaggctgc 120  
 atggatgcaa aatacttgat gcacacctgt cttgcttcag gcttttgagc ctgcaaggcc 180  
 ttccttgtct cttacagcac cttctgatac acttccagtg tcattctcta caacacaggt 240  
 taaatgccgt ttagcaatga gtgaacaata acgaagaaaa tataaaggctc aaacgtaaca 300  
 cactaaaagc atgatgg 317

<210> 22510  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 22510

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 atcttttacc gtacaccaca tgatgttgcc gttgttgcca tctaaagccc atgcatagcc 120  
 acttttctga accgcaacaa caacatcttt cttgggttcca tttatatata tggacaacat 180



cattggtgcc tccccagaat cagcatcttg ccaaaaacct ctgggtggac aattaggagc 240  
tgaagcattt atacatgcta agataaatat atcgaagcct ccacactggc ggtaccatct 300  
gatcttccac gaatacaaat caacggctaa tatcgaattg gagtggatgt ctggctaata 360  
cactcatctg 370

<210> 22511  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22511

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caacaccggg gaatgtgggg aggttggtga ttataaacct ctagggctac cgattcgcag 120  
tttgagatcg gttgctagag atgtagatag ttctagatat gccaatgaaa gtgattccag 180  
ttcagtttca aggggttctt ctagecggatt gggtaagagc ggagataggg aatttgggga 240  
tctgggtcct tccaatttgg agaaaaaatt taatgatgct gctgctgctg gtggatcagc 300  
ttctgcgatt ccctgggtgct caacgaatag atggacggaa agggagaaga catctggcaa 360  
tgttaccagt ccttcgcatg ttatgccact tt 392

<210> 22512  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22512

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tattccgcaa ttctgagcat agcactgtat acaaaggagc tttaaattatt aaagaaggaa 120  
aattgatttg aaacggacaa acacataaca ttgttaatca gagcaaatat tattaatatag 180  
tgaaaatttg aatggatgct agcacatatc atcagtcata gcctcaccga cccatcaatt 240  
cgacaacctc aaagtacaaa cctttgagca agaaacctca acttcagaga gaataagaaa 300  
cacacacaca cacgcagaga gagaggaatc caaaaaaggc aacaggaggt cgagagatgc 360  
caaaatgcaa aaactcccta cattctcttt tgtctccatt ggaaaaatat caccttanna 420

cagtca

426

<210> 22513  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 22513

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ataaccttcg attgctgcaa aaattcagga aaagaattga caagtaacca tttctcttag 120  
tttactact ctttctcttt cctttttag ctcgtgttgc ttggagatgt ttcactaagt 180  
tttattaaat tatgaatcat gttagaagtc aaccaaatta ttatttatca cacttcttct 240  
aatggcaaaa gttacaatat aagtctagct caaatgtgtc atggaaaagg ataaaatata 300  
aagttaaata taacggcaca gagaaaacac attttcatct agttaagtat ctggcgtgta 360  
agtttatggt gtaatagatg 380

<210> 22514  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22514

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gcatctggct atatagtcgt ggcattggcat attactagat attatacact cagaattgtc 120  
ccatacaaca ccagaagcgt cacaattgtc tcaaaaattg ttaccaccaa attatgttct 180  
taccgccaga agtgttgtgt atggaaagca agtatgagct taacaaatcg actgcaaatt 240  
acttagatgc aaggacaatt taagtcagta gaccacatca agttattgca ataaccctta 300  
ccaacatctg atgtacccta atgaagccga gggacaaaga atat 344

<210> 22515  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 22515

agctttgaat ggaggctctg gtctcttggt gaaactgcat gttttgcata gtcatttgcc 60  
tcacaagttc ttcaagggaa ggttgcgag aagcctcaac tatttggtgt ttctgggggt 120  
gttgctgttg ttgttggtgc tgttgctggt gtgaatgatt tgaccatcta aggttgggat 180  
gattcctcca cccgggattg tacctatttc tagagaggte atagttgttc ttttgtggct 240  
gattttgctg ctgaggttga ggggtctat tgtagatggt tgcagcataa gcttcaagct 300  
gttcaattgc ttcatttgt tgacaaaaag gcaaaagtct gtgtgggtgt cggcaaacga 360  
tcatatacca tatagtctac c 381

<210> 22516  
<211> 528  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 22516

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ccgatttctt tcacttatac acccaataga gaggcggagt gggggtgcta tgtgatatac 120  
atagtcacc acacctacat gtgtaaaact caagtcgtaa ctccaacgtc acatcgctc 180  
tgccgcacaa gacaaccttc tcgccacggt ggcgttagaa cagagaaaag gcctcgtgaa 240  
cgcatcgccg ctgtcccgac ataatgcgac agccgtgata tggtagaaat ggcgccgagg 300  
aagcggtaag ttatatctct tgacgcatga cgtgcaggaa gcaccacacc ggggtatggt 360  
tgcgctactc cgtacanagc gtgtgctgat agcgcgcata tgctgagcca acgctcgaca 420  
tgccgatcaa ctgccgcttg acagctacta ctgtgataat gagtatggca aaaataacga 480  
taatcttagt gccctcattt gcctatacgc aacgcatggt ttgtctcg 528

<210> 22517  
<211> 408  
<212> DNA  
<213> Glycine max  
<400> 22517

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ttcctcaaaa aggaagttg gagttgaaaa attgcaatac caatgagtag ttggctgatt 120  
tttaacaaaa tctcttaata ctgatcgatt caagctaata agagacacca taggggtgct 180

gtctattgct aatctaaatt acacggaagt gttgtatata attcagttag tggttatatg 240  
 ttagtgaatt gttaacaaac tacttgtaaa tgtgtaccat aaatagtgat gctctgtata 300  
 tgtgataaaa agaagtaaga aataaaatct tctattcaat accatatctc ttatcttggt 360  
 ctctctcttt tcttctctgt tcatgtaagt gatctcattc attctgag 408

<210> 22518  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22518

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 aatagggttag ggtttgatac tgagttctgc aacagccaca tatgggtcat tttttcttt 120  
 aatgcaaacc ttcacaccta gctcactaaa atttaccatc tgttgtagat cagtgaaga 180  
 cagcatgata ttgtacaatt agaaatgtgg tgcttgaggt ttaaggaact agagtttaca 240  
 tgataattac cttattagga atgtcattgt cggttgattnt agtgatgata ctgcaatctg 300  
 tttcttctct ttgctcccct gatgagtnta ttgttggtga tggagataga gatgaggaat 360  
 tttgggttct gcaaacatgc aaaaaagcca tccttattag aaaaataagg tatttggttag 420  
 atac 424

<210> 22519  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 22519

agtttatatt aatttagtct aaactttcat aagctattta agctgagtct agtccaacaa 60  
 gagggatctg aggatgaagc ttagtttaag ttagtctaaa cctatgaggg ctgtctaaat 120  
 taagcctagt ccaacaagag ggatctgagg aggaagcttg gattgattca gcctaattag 180  
 ggatcgaggt ttagtaattt aggtacaac atagaacaca atagcacgat tgattagaga 240  
 aacatcttta tatacatcag cttgtttggt agaaagaccc aacaacactt ttacctactg 300  
 ctgtcaatct taattaccta tatttctact gggttttagcc tagacttagt ttaattttgt 360

tctacattac caatgtttct ttcaacaatg cctta

395

<210> 22520  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22520

agatgaggaa gtgtagaagg gtgaacttcc tgcttttatt ttcgaccaca gagnggtacc 60  
tggagatatg tcgcggggggt caagagacct tggggacgtc aggtgggggtg ctattgcccc 120  
aaaccaagct tgaccaatcc cgacccaacc cgggcataat cggtcagtga gaacctgtga 180  
tgtacctaaa caggcgagct cctggcagtc aacagataaa aggaacaaag accacaaagc 240  
atggaggctt gtggtggctg gccagttgtg aattattgtg tgatatatgg gttgtggcct 300  
ctggtaatcg attaccaatg gagggtaatc gattacaagg cttaaaaatg aagataggag 360  
gctaagatgg tctctggtaa tcgattacca cggagtgtaa tcgattacca ggcttgaaaa 420  
cgaggt 426

<210> 22521  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22521

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caagtttttaa attatcaaatt tacctcaact aataaaacac atacaatttt taactctttc 120  
ttttgcaact cctcaagagc tttctgaaaa aatctgcatt cttctagcaa ggagatctgg 180  
atgaatacat tcgatgcaga aaatcaccat gtcagggaaa tattaacagt ggcatatgaa 240  
ccatataaaa gacttcatat tcctaaacat gcaattctag tgacaacaga natatttgca 300  
ttcaaaacaa aacacaattt acctagagca agacatccga aacatgaaaa tatagatgct 360  
gagaaagttc tctatttgag ttataatggc tataatgcat a 401

<210> 22522  
<211> 404  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22522

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tgaattctca ttattagttt caaggtagc acaataataa atcttctcta tttcacatta 120  
attgtgtgtg agcatcttta ttatctttat catttttttt tctctgtgaa ttcttaattt 180  
tcaaactaaa tctaacatat gccaatgtat agtttaatat ataaaaggag aaactattgt 240  
aaaatataaa attcaactct tacacataaa aacaaaaaat gtgtagagat agacatatat 300  
tcagaaaaaa taattaataa accanaaata acatangaaa aaaacttaca aaacatgatt 360  
ntgtgtaggt aaaaccaata aaataaaaact tttactacct atgg 404

<210> 22523

<211> 487

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22523

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tatgtccaac caataatcca aactaactc accaaatagc tttgctacca taattcagta 180  
acagtaatcc ttagtaagta gtctatgaag tattcttttg ccaagctttc atagactttt 240  
caaccaata ttctttcact aagcctctaa aggatccaca acacaactca atagttgtcc 300  
aaccaacaat atatccaaca ctaactcacc aaatagcttt ttaccatac ttcagtaaca 360  
gtaatcctta ctaattagcc tatggaagca caatctactt caaggacttc actctagact 420  
ctatgttggt ntatacttgg aaagaatgga tacacaaan aataaaatgg ctcataaaca 480  
ctcatta 487

<210> 22524

<211> 401

<212> DNA

<213> Glycine max

<400> 22524

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gtatatgctc ggacttaatg cgggctgcag caccggctcc gcttccctaa ctgtactaca 120  
ggcgggttgcc gaggctctat cctctatggt tctatggagt ttcaacatga cctgtgagat 180  
agaagacaca tgagacatta atgaccttct tatcgacagt gttgtttagt tcctgtaggg 240  
ccttattctg catcatttga acataaaaatt aaatccacta attgtatagt tagaggatcg 300  
tccacaaaac actgatgggt tgatataaat tataaattag ttcttcaata tatttaatga 360  
ttactaatat tgaaattaca tatgtataat acatctgacc t 401

<210> 22525  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22525

tatgtccaaa cggctaaggt ttgtcaatgt aaaaatgctt gatgtgttca ttcctccagt 60  
gtangaattt gagtgcagca caagaaactt cagttgcttg aatttcccaa aaatctcctg 120  
cacctcccca ccaaatttat tcctgcttaa atccaagatg aacaaatggg tcaagttcaa 180  
aagggctctt gggatatccc tcgagaaagt gttgttcccc aagaacaatg catcaagacc 240  
agaaatggaa ccaatttcac tgggaatatc tccagtaaaa ttgttaccag aaagggtgag 300  
aaccaacaaa ttcttgcagt tagcaacctc ctttgggggc ttaccgtcaa attcattaac 360  
agaaagggtca agtttttcaa ggctacaatt gattggaaaa gccttggaag gaacaacccc 420  
tgtgagaaaa ttct 434

<210> 22526  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 22526

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taatcaaatt ccaatattat acaaaatggt ggaagatgga gacgagaatt ttcaactcac 120  
aggacaaaat ttagtcaaaa ctagaatttc tccactagga tcaacagtat gtctagccgc 180  
tagggctctc attacaattg accttgctgg taaccatgaa ttgacatgaa atcgaacact 240

ctgcaaatga ggagggagct atctcaaaca acaaagcaaa aggtaaaaca ggcaagataa 300  
aattcaaaac cacttattca tgttaaagtt caacaagaaa gtacacaagt gaagacttac 360  
atccagaaac tcaactgccag caagagccat tgcacgttga a 401

<210> 22527  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 22527

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tagtggccaa attgtgaggc gcaagagcaa gaatatgcca cagttgtcat cttggcgacc 120  
gggcaaaagt ctcattcatta gccaatccat attggtgctt atttccaagc acaactaaac 180  
gagctttgta acgatctatg gatccatccg agcgcagctt tatagagaac acaaacttgc 240  
tacttaaagg cttaacagat gtgggacacg ggactatata ccatgtttga ttttcttcca 300  
atgctagaag ttcagtttca atagctntct gccacaagc attcttcatg gcctggctat 360  
aagaggaagg gataggaata aaggataatg aggctgtcat ggaatggata tacctgtctg 420  
gg 422

<210> 22528  
<211> 387  
<212> DNA  
<213> Glycine max  
<400> 22528

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agtatttgct tggacattcc ttcattatcc tcaactgataa taggagtctt aaggagttga 120  
tggctttaat cattcagacc ccagtgtcat cttagattaa tgggctatga ctttaccatc 180  
caatataggt ccgcccattc aaatttagtg gtggatgtgc tatcttgcac ttccaagggt 240  
tccaggggta tggcttcttc actgtcgatg cctcatttca cattcttaac tgaactcaaa 300  
cgttaattag ctgatcacca agagttcata gctctccggt gagacctaca ggaacatcca 360  
gataatcacc ctgatcacac ttacaca 387



<210> 22529  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22529

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 attttaaaag ttgttacata tagtattaac ttttggaat cgattacatg cgttgtataa 120  
 tcgattacac tgttttaaat tcaaattcaa aatttataaa actgtttcaa aaattatttt 180  
 agttattagt aatcaattac atcctctagt agtcgattac caaagagaaa acatcttatt 240  
 tttgaaaaca taattttact tacaagtttt tgtaagatat tttcctctgt caaacttggtg 300  
 cagcatcatc taagaaattc ttttcaagat cctatgaact aagtacatcg ttcttcttga 360  
 atttttttat tcttgactta gatcgtgctc atctttgaca tcatcaaaac ttcatatcat 420  
 atatgcttct gcaatacttt tttcactatt gaattangaa tgaatgaggg tttt 474

<210> 22530  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22530

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 gcttagctac acacatcccc tataatagtt aagctcacc ccatgccaaa atacatgaaa 120  
 atataaagaa gtcctaata caaagactac ttaaaatgcc ctgaaataga aggctaaaac 180  
 cctatactac tagaatggcc aaaatacaag gcccaaaagt aggaaaaacc tattctaata 240  
 tttacaaaga agagtggacc caaccttggc ccatgggatc aaaaatctac cctgagggtc 300  
 atgagaatct tanggccttc tttagcagct ctageccaat ccttttggag tcttctatct 360  
 aatacccttg gggggtagga ttgcatcana gtcg 394

<210> 22531  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 22531

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tttatctttt cgtttggggg aatgctgaaa ctttcctttc tttttcatca ttgtttcaaa 120  
cttcctagac ataagagcca cttaaactcat ctgtggatcc ctcagaattg ttattaaagc 180  
catcagactc aacaatatgc acttttagag ctttaggaga gttattcttt tcttcttgtc 240  
tgagagctaac ttctatagtt ttgagggcag caaaatcttt caaaggtaga tgatcttggc 300  
aaagctgtct agaactctca aatgtatcta agatttggtg aaggtttgtc ttagagcttc 360  
aagaccactc ataagcactt aaagtcttcc aaacatgtca tccacaaatt ctccttcttt 420  
catgg 425

<210> 22532

<211> 391

<212> DNA

<213> Glycine max

<400> 22532

agcttgacca atctttaccc aaccgggca tagtcggtca gtgagaacct gtgatgtacc 60  
taagcaggcg agctcctggc agtcaacaga taaaaggaaa acaagaccac taagcaagga 120  
ggcttggtgt ggctggccag ctatgaattt tgtgtaatat gtggattgtg gcctctggta 180  
atcgattacc aagggtgggt aatcgattac aaggcttaaa attgaggaca ggaggctaag 240  
atgggtctctg gtaatcgatt accaaggggt ggaatcgatt accaggcttg aaaacgaagt 300  
caggaaactt atggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagat 360  
gaatgggtca ctggttatcg attaccaggc a 391

<210> 22533

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22533

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ggttctctga ggctgaatgt ggatcaagtt gatctgagag attcatggtt tagcatatgg 120  
atcaagtaca aggtatatga ttcacaggag tattttcgat gaagttcctt catgcggatc 180

*(The page contains faint, illegible markings or bleed-through from the reverse side.)*

<400>            22534

<400> 22535

9445

<210> 22536  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 gtggctggct aatgttgtgt tttgcttgct gtttgggtggc actaaggaca tggacactcc 180  
 cttcatctaa tattccttgt ctagattgtc atgttcaatc agaaaacacc aattgaaata 240  
 gaatcgggaa ctctccacac caataaacag ggctgcagat ttttgttttt tgttttaatt 300  
 cgggaaagga taatggatct gatgggcaaa caaatataat gcagcaagta gttntctca 359

<210> 22537  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
  
 <400> 22537  
  
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 ctgaagattc agactgggat gaatttggca atgatttgta ttcaattcct gatcaagtgc 180  
 ctgttcaatc aagcaactta attccagagg ctctcctcc caacaaagct gatgaagaca 240  
 gtaagattaa agcctttgtt gatactccag ccttggattg gcaacggtgg gtagagtatc 300  
 ctcttttct tagttgtgtt gtttgggtgca tgtagtcac acagaatgga aataagtatg 360  
 atgataataa tcaatgaaac aaaaattact aattctttcc cacctac 407

<210> 22538  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 22538  
  
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ttggaggaaa acaaaggaaa aagaaagatt cccgatcaaa gatcggaaga aagcaaaaga 120  
 aaatatatag aaaggtcgtt ggaccacaca atatctgaat aatgtacaaa attgtcacaa 180  
 gcaagaaaga aaagaaaaac aaccatgact tgagacgcat gaagcaatcc ccttctttgt 240  
 taccaaccaa atctttgtgc tcgcatctct ttcacactgt gccaaaagaa aacagaaaag 300  
 gaaaaggctg aaatgctcag agccaaatth cccacaaaaa acaccattcc cgaaaaagtc 360  
 atgttagtcc atgattgctg atgttatctt tgatttgata ggaaatgatt tgcaaagtca 420  
 agtcatgaca tan 433

<210> 22539  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 22539

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 gtggtacctg gagatatgtc gcgggggtta ggagacctg gggacgtcaa gtggggtgct 120  
 attgcccaaa accaagcttg accaatcccg acccaaccg ggcatagtcg gtcagtgaga 180  
 acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaag gaacaaagac 240  
 caciaagcaa ggaggcttgt ggtggctggc cagctgtgaa acttgattga tatgtgagat 300  
 atggtctctg gtaatcgatt accaagggtg ggtaatcgat tacaaggctt aaaaatgaag 360  
 acaggaggct aagatggtct ctggtaatcg attaccac 398

<210> 22540  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 22540

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 aaatttgagt ttatctcttt tatcttagtg agagtgattc tcctaaattc ttgagtgatt 120  
 caagaacacc ctggctgtat caaaggactt tcacaacctt tgtgtgttgc cctcgccgga 180  
 aagagtgatt ctttccttcc tttcatcttc aaccttgctt tttcaaatta caattccaga 240  
 aaatccactt ctgccagaa ttatctcttg gccataactc ctgttttacg cactcaaatt 300

aagtgattct tgagcttaaa ttgaatttca agacgagacc tttcacctcg tgttgaatc 360  
acctcatttg gagcctgta gcttgagttt tttccatttc tatatttctg tccagccacc 420  
acttaaccta cattgtctca 440

<210> 22541  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 22541

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gattcaatag aagtttgatt tcaagattca agagaagaaa tcaagaagac ttcacaaggg 180  
aagtattgaa aagatttttc aaaaaacaaa catagcacag ttttggtttt caaaagagtt 240  
tttctcaaaa ttttctaagt taccagagtt tntactctct ggtaatcgat taccattttc 300  
ctgtaatcga ttaccagtgg caaagtttga tttcaaaagc ttttaactgg aattgcaaca 360  
tttcaattga tcttttatatg atgtaatcga ctacaatata ttgg 404

<210> 22542  
<211> 395  
<212> DNA  
<213> Glycine max  
  
<400> 22542

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atgtgccacg ctgttggtg tgtgtgatgt atttgttaca aatgggttta tgatccctac 120  
atgggttggt catgggtgcct aacacatgca tctgagaatc gagtgtgaag ttgcacgctt 180  
ccccctttgc gtgatattct ttgtaaggaa aacgcaatga tgatcatact tgagaacaaa 240  
tggtatgcac ttgtgtagat caaaaagttt gttgaatgca tatgcatgat gatgccatga 300  
ctcatgcaaa atgtgatgct ggtatatgat cacggacaaa tgcaggatca tatgttcggt 360  
atgacttatg aatagatgct gatgctatgc atgat 395

<210> 22543

<211> 388  
 <212> DNA  
 <213> Glycine max

<400> 22543

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 ttgcgaaaga agcacaagca aggaggtatt gttgtgttct aaaaacaaaa aataagaagt 120  
 cacaacaaat atattatcta aatcatgaaa attcaaaaat gaaacgtact tttagaagat 180  
 gaaaacatga atttttattt tattgttttt ttgctcttgg tttgtatcaa tcacaagtga 240  
 ttcatttgtg tgatggttga tatgcttgc caacaggaac agaaaaagat atcttatcga 300  
 ccgtataatt gacatcccat aatagattga acctgagttg ggggtgtgaat gttgtatcta 360  
 caaggcacct actagtcttt tgaatgtg 388

<210> 22544  
 <211> 201  
 <212> DNA  
 <213> Glycine max

<400> 22544

gcaagagaca aacgtctctc ttaacaagct aatctcgtgc ttagcgtgca accttgatcc 60  
 ttgtgctctt tcagattccc ttgtcacgct aagcgcgctg aaccactgg gtccgcttag 120  
 cgcgactgct tctttagca cttcaagact ctatcctcat ttgacctgat attgaacaaa 180  
 tttcatcatt aaatctaata g 201

<210> 22545  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 22545

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttataca agtggcctca 60  
 gatattctaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaata 120  
 tctatttcac ttttttactc aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180  
 attcaacaaa agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240  
 aagagaaaat gcaaactcag ttttatactg gttcgaccac acccttgtgc ctacgtccag 300

tccccaagca acccgcttga gagttccact atcttgtaaa ttcctttttac aagatctaaa 360  
cacacaagga caatccttcc tttgtgt 387

<210> 22546  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22546

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taatcatgaa ttagccaagt cattagtgtg acatccatat gtcgggcat tgactaaagc 120  
ttgaaagaca cttattgttg atatgatgaa gtcaatgggc aaaccaagaa acattctgct 180  
gactctgaag gagcacaatg ccaatagttg tacgaccatc aaacaaatat acaatgcaag 240  
aagtgcatat cgttcttcca taagaggaag tgatactgaa atgcaacatc taatgaagct 300  
tctcgaatgg gatcagtata ttcattggca cagattanag gatgaagacg tggttcgtga 360  
tatcttttgg tgtcaccta atgtagtga gttagtcaac acatgttat 409

<210> 22547  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22547

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tgttaataga aatattgtca aanagacag aggtatacaa ataatcaggt cccacatttc 120  
taaagattgt agaaaaaagt attaaaaata aaaaaaatat aacaaaaaac attgtttaga 180  
tttttttaac gtgtacatta ttttatatat catttgtgta aaaaatttat attgtatta 240  
tttgggtaat tttttttgta ttaaataaggc actattagaa aatatgctgt tcacatcgg 300  
tatttatgac tttctacatc gggttttaac cgatgttgaa agtattatcg ttaacaccgg 360  
tttttttaaaa ccgatgttaa tgtaaaattg acaacatcgg tttattaaac aaccgatgtt 420  
atataataag atttacacca aaaaaatata tgaatgg 457

<210> 22548



<211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22548

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 cttgacatcc ttcaagttcc gtcgaacttc ttcagagaag ttattcccca ttacctctta 120  
 tgcgatctct ttcataattt ctcaagtctgt gtcaatcttc aactgactcc ccattatatg 180  
 tgttgngaca actccagatg tgtggacatg tgtgtggagt atatgatctt attgctacat 240  
 ttgttatcga gttctctgat tctgttgga tctgtacgc tgcatttttc catttatact 300  
 acgatctgat ttgctatctc tttgcatgat ctgat 335

<210> 22549  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22549

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 cgattacaca ttgcatattt tgaattcaaa ctataatagc tgttgtaaatt gatttttggc 120  
 cactggtaat cgatcacatc ctctggtaat caattaccac agagtaaatt ccttgaaaaa 180  
 gacttttaatt gtaaactact tggccaatcc ttctgctagc ttaattggaa tggcctgctt 240  
 atctaattga ccttcctat gacactagag acggtcttga tcatccatct tggatatctt 300  
 taattacttt gtctcgaata aatctttgac aagcacgtga tccatgcgat cctttggcat 360  
 cctca 365

<210> 22550  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 22550

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 tttttagata acttttttac tgccatagcg ccacatgcgt gtcaacatct ttatttgctt 120

tgtgttataa attaaaaatc aagatgaata taaaaaacat ctcaaccttc tagaggacaa 180  
 gaaaaccagt aattatcaga atgtaactct tcttcaggat aattattgct atgacgtgat 240  
 tccagttcag ttagattggc tttcaatgaa tcaatctaga caaataaact ttcaacctta 300  
 cgagcaagct ttaaattgcat gtaaagttag tagcagaata gcataatgct aatgggggggt 360  
 atttggtaga aaccacaaaa tgtgttgagt ta 392

<210> 22551  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22551

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 cacagaatta ccactctacc tgtgtagtac acaccagtcc aatataagga taggtttcac 120  
 aaaatcaaca atgaacacgg gacaattgag agacgagggt caagataaag cagaagatga 180  
 catagtatga cacaaaatat taagagtatt accgtgttgt gaaaggaaga gggaaaaacc 240  
 aagccactct tctcactaag ctactctttc tcataaccag gaatgaccac acattntagt 300  
 agtcttactc gggttcgttg gctttatttg tctctctctc ctaagtatgn ataatgcttg 360  
 ttgagaaatg ctcttactca taanaattta attctctgat acaagcttaa acttttttta 420  
 gcatgta 427

<210> 22552  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22552

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 ngggagtata gcccaactgc aaacattcaa tgagtatgaa atgctatgaa gactggtgag 120  
 cgaatcgaga caacatctca gtacagaata atcccaatga ttaacggtat gatcgatcca 180  
 catagaacac acttcccgcg gcaagtcaaa catgaatccc tgactcacga tagatacacg 240  
 cgcaacacaa ttaacagcaa tacaacacc ggctctaaca gggaatcacg ctacgagaaa 300

cacacgaatg ccacacgata atccaaaaaa cgcataacga atggatacga ctgacgccaa 360  
ggaccccaga gagatgcaca ggaccacn 388

<210> 22553  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 22553

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tccctattct tttccaaaac atcaaaaaac cttttgaatt gcacgacaag tgggtgttaag 180  
caactcaatt tggctagcaa gaatcaaaat gttagcaaat gatagtcccc agacgaaatt 240  
agggtatgac agttgccctt ctttacttat cttttattgg aaataaaagg gaagtaaaga 300  
taaggacact aatttcgttt gagcaatctt gttattcgac agggcaacca aggaagtcaa 360  
accgagaaaa catgaggaca ttgaagttc 389

<210> 22554  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22554

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ttctattggg tatttgttca tgttgtgtct tcaagatcct atcaacatga tggacaacac 120  
aatcaagatt gagaaattta taagaaagaa tagcttcaac ctttgatgca tcaagatacg 180  
agccttggtg aaagaacagg gcacctaggg tcctccctcc tatcaattgt caaagattga 240  
taagccagtg cttgagttac aagaggaaaa ggtgcattcg ctaatcctct aatctttatc 300  
taatgaggtt ttttattggg ttctggctcg aattggagaa acttttcatg acaacatcaa 360  
agaaatattt tgcgttgct cttgggcaga atgactcctc atcgg 405

<210> 22555  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 22555

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tgatgattct aatgccattc ttccaaggaa ggatttttta gatgatattt cagattcctt 120  
agaagataca catattcatg gaaatgactc taaagaaaaa gatgaaggaa gcaatgaaga 180  
ttctcaagat aatggagtta gggcaaataa tgaacttcca agagaatgga aagcctcaag 240  
agatcatccc ctgcacaaca ttattggtga tatatcaaaa ggggtaacaa ctagacattc 300  
tcttaaagat ttatgcaata atatggcttt tgtatctatg attgaaccta aaaatataaa 360  
agaagccata ctagatgata actggatcat tgtc 394

<210> 22556

<211> 420

<212> DNA

<213> Glycine max

<400> 22556

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tttggtttta gaattataaa aaacatgaaa attaggattt gcttgtgaga gtcacgctc 120  
tattttgggc tgcccatgt ttgatacttt acatagaggt agtgtggaaa acaccttgca 180  
atagtgtgta tacataggta aatataagga gcatgaaatt cctagcaaag tgtgaatgat 240  
tgtcttccta aatgaatgta tgatagtgtg gaatgccttt ttgaaatgca aatatgtgca 300  
ggatgtaatt tgctttccaa tatgcatata aataaatatg agtgaaaccg taaaaatttg 360  
tatggtgtac ttcaaatgta tgtaagtagt tcgtgatagc aaatgttttag gatataaatt 420

<210> 22557

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22557

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aggtagtccc gaagaagacc ggcctcacag tgataaaaaa tgagaaggag gagctgattc 120  
ctactcgggt gcagaacagt tggagagtct gcattgacta taggaggctg aaccaagtta 180

ccaaaaagga ccattttccc ctaccattca ttgaccagat gcttgagcgc ctgacaggta 240  
aatatcagta ctgtttcctt gatgggtttt ctgggttatat gcaaattact attgctcctg 300  
aggatcagga naagaccaca ttcacctgcc cctttggcac ttttgcctat angaggatgc 360  
ctttcggcct gtgcaatgcc ccttgt 386

<210> 22558  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 22558

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gagatttcag atggacttta atcctaatacc catagccgac cttttcacga gatctctact 120  
taaccctttg gttaaattgat cggccaaatt atgctgagtt ctcacaaact ccaactgatat 180  
cacaccatgc atgattaact cccgaaccat gttgtgtcta acaccaagt gtctagactt 240  
cccattatac acttgactat atgccttagc caaagttgcc tgactatcac acctgataga 300  
catgggaggt ataggtttgg gccacaatga aatctcatag atcagatttc ttagccactc 360  
agcttcttta ccagctgctg ctaaagctac aaattcatat tc 402

<210> 22559  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22559

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ttggcctcac aatgaaaatg ggacaaagat ggataagcta agcttatagc taagaggcct 120  
gaaacatgtc gaatgatgga tgatggacaa tgatgaatgg acagcgttga tgattggaca 180  
atggacttgt gaattgtgac tgcaaccatg tgaggctttt ctgagtttca tacgaattat 240  
tttagtagtg tgctgacatt tggccatgga tctcaatctt ctgaggatat angatacttt 300  
catctgaata aagctaatac aggaccactc aaccaaacgg gatactcaag gcagatactg 360  
ttcaactata catgtct 377

<210> 22560  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22560

ntggccctac tggggacact gttcatcagt ttaattattc aaccacaaag tttagtgaac 60  
 aaanaagttt ttcaaatgat ttactgaaa atgaaaaacc cctcagttat tctccacaat 120  
 caattcaggg tgggcatcag tattcacatg cccctcatgt tgggagatca tcagctggac 180  
 gtcctttctca tgctttggta acttttggat ttgggggaaa actcatcata atgaaagatc 240  
 ctaatctttt gagctcatca tacggaagcc aggttaattc ttgattcctc atttgagttt 300  
 tgattttttg ctttatctgg tttccgaaag gctttgaggt tgctcaatat tgtttccttt 360  
 ntatcgtcta ctttcttatg agtgatttat caaaatgatt aacactgtaa attcatt 417

<210> 22561  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 22561

agcttgtggt ctattgaaca tattaaacct ggatagttaga tggaaacatg aacagataac 60  
 taatcagacg accgatatga aagacttcac agatcgaaat aacgttaact taaacaactg 120  
 agttagtggc tgaacttaca aaaattattg gctgatgtaa gaaaataata ctaataattg 180  
 acagtaataa gaagagtgtt aagagtacac tatagactgt aactagtctc tttaaccttg 240  
 atgggtccagt gtgtatcagt aatatctgag tgatacttat gaacatacta atttgaagcg 300  
 agagta 306

<210> 22562  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 22562

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 tcctattgag ccagagttct actatttgta ttgcattact actaaagtga cctatactat 120

tgggtatacaa tataaatgac cattaggtat gtgttatgtt ttacatatca atatcaatct 180  
 cctgtcatgt tgtccttttg ttctcttttc ctctttctc agctatatat attttcacca 240  
 actataaatg tatgatgtta aaactttctta ttaaacaatat taaacaatac catacacatc 300  
 atgatctggt taggcctggt aattttgcaa tcattcacaa tacaaaagat ataataaaat 360  
 tctaacaatga tttgatattt aagacttgga aaaatatcta taatgtctct agcatgtgat 420  
 g 421

<210> 22563  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 22563

agtgtgggat gatttatggg gacccggtga cgagagaatc gaggatatgg gctacatagg 60  
 actacgtgag actagttgga tgtgggccac aggggatggt cggtttatgc gcacattgag 120  
 gatgtggaag aactagttgt gcaccatcgc ccgaccgcga actattacca catgtgatgg 180  
 gtacctcata atactacaag cttgagatga ggaagtgttg aagggtgaga cttcctgctt 240  
 ttattgttga ccacagagtg gtacctggat atatgtctcg gtggtcatga gacc 294

<210> 22564  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 22564

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 gctttccaac tgattgttgt accaaacaaa gtaaacacat atcctgttaa ggatttcctt 180  
 gtgtctacat ttctgcaaa atctgcatct acatatectg tgattgctgc ctcatgtgct 240  
 gtcttcttgt accttaatcc agctatcaaa gatccatata gataccttag tgttcacttc 300  
 acaacttccc aatgcgcact gccagcatct cccatgagtc tgcttattat acttacaaca 360  
 tgagccacgt caggtctgct gcaaaccatt ccatacatta tgctttacac acc 413

<210> 22565

<211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22565

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 tgaatgggcc catttagaaa agcattgatg atgtccactt gtcgggtatc ccattttctg 180  
 gtgactgtaa tgctcatgat tgtgcgaata gtggctgggt taataacagg actgaatgtc 240  
 tcattgtaat caaggcctgg tctttgagat aacctttaag ccactagtcg agctgtgtgt 300  
 ctgacttcag agccatcagc attgtatttc aagcaataga tccatttgga gccaatagcc 360  
 ttctta 366

<210> 22566  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22566

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 gtcatgtttc ttcaccaaca aactggaga taaaaaaggc cttgttctcg attgaatgag 180  
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 tcga 244

<210> 22567  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22567

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 ttagttataa caatagaaag agaaaaaaga aacaacaag aacaacgctg gttggtggtt 180



ctgaaagcaa atgtaaactt ggctgggcca gatatgtcca ttaaaaaaaaa cacaattatgg 240  
 tggatatgtcc caaccatgggt tacttcattt tgtcaaaca atttgtatcc agtaacctaa 300  
 aagggcattg ttggtagggg tagccacggg tcagactgga taggatctgg ggcattnttt 360  
 gatctgatcc aatcaatttt aaatggttta gatagaattt tc 402

<210> 22568  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22568

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 gaataataag gttgttgtgg ctgatgtctc gttaagcgag acttgtgctc ttagcgagaa 180  
 tcatccgcta agctaggcac tcagcctact tagcgagttg ggagaatctg gaggacaatc 240  
 tgccaagcat ctgcacgctt agtgcgtcat caactcgctc agtgagccat ttgtcttctc 300  
 ttgcgctaag cacgtccagc tcgctcagcg gaaaatcact tactcgact tagcgcgaaa 360  
 atggcgctaa gcgagccttc gagggacaaa aaacccttaa tagatg 406

<210> 22569  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22569

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 tatectacaa gaaataacgt ttgatagaca acaatttggg aaagtatcag cttggagttg 180  
 ccaaagctca gtcaagcttt tccaggattt caatgggtga acccttgctt tttacccatg 240  
 tataagaata gcctccaag gtaaataatca ttcaaacc aaatcaaacac tacttctctg 300  
 aaacctgtta tgagataatt cgggtgagaa gtttgaccct tcttttcatc ataggagagg 360  
 atgttattaa agtcttccat ggtacaccat angagagaga tg 402

<210> 22570  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 22570

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 ctgagagaaa gatatggcag ttactggccc agcatgtccg tcaaacctag caacatttgc 180  
 ctacaaccaa tggaggaagg taagaacata gagaataaca ttgaatatta aaattgaact 240  
 ttaaacaagt ataagaaaa atgtttacct gactttttac atcccaaate ttgacaagag 300  
 attctgtggt gccggttcca agaattgagac catccggatg aaaagccgca gatgtgtacc 360  
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 aacttatgta 430

<210> 22571  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22571

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 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaattggt ttgactaatg 300  
 atatccatga tattgttgag ctgcaggagt ttgttgaaat ggatgaattg cttcacanag 360  
 caatccaagt agagcaacaa ttaaaaagga aaggagtgg 399

<210> 22572  
 <211> 422  
 <212> DNA  
 <213> Glycine max

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**NEW**  
**YORK**  
**PUBLIC**  
**LIBRARY**

<210>	22573
<211>	467
<212>	DNA
<213>	Glycine max

ggcgctgtg	ctcatacact	gcggacctta	attctacgct	ccgcgctcat	ttgggaggct	60
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attaagaaag	gaggacaata	gggaatgata	gtgatcctag	acaaaacctg	cttgatggta	180
tttaactcag	cattcctcca	ttcatatgaa	agaatgatcc	tgaggcctac	gatgcgtgcg	240
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ttgccgccac	ggagttatcc	gactatgctc	gtgggtgggtg	gaacaagcta	caaaggaga	360
tagctagaga	tgaagagcca	atgggttgata	cttggacgga	gatgataaag	atcatgagga	420
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<223>      unsure at all n locations
<400>      22574
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9461

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gaccacacaa tatctgaata atgtacaaaa ttgtcacatg caagaatgat atgaaaaaca 240  
accatgactt gagacgcatg aagcaatccc cttctttgtt accaaccaaa tctttgtgct 300  
cgcactctgtt tcacactgtg ccaaaagaaa acagaaaagg ataaggctga tatgctcaga 360  
gccaaatttg ccaccaata caccattccc gaaaaagtca tgttacgtca tgattgcgca 420  
tgttatctgt gatttgatag gaaatgattt gcaaagtcaa gtcatgacat atctat 476

<210> 22575  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22575

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atgcagggaa gaatttctcc atgaacaccc tcttaaggte attccagctg aaaatggacc 120  
taggagcaag gtagtatagc caatcttttg tcaactccctc tagagaatga ggaaaatcct 180  
ttagaaagat atgatcttcc tggacattag ggggcttcat ggtggaacaa aaaatatgga 240  
actccttaag atgcttataa ggatcttcac ctgcaagacc acgaaacttg ngcagcaaat 300  
gtattagtcc agtcttgaga acatatggaa caccctcctc aggatattga atgcacaagc 360  
tntcataagt gaaatcaagt gcatccctc 389

<210> 22576  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22576

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catgggccag caacaaaggc cgtaagtga tgaagccctt ccatgccaca tcaacaagag 120  
tttcgtgagt gtgggttgga ggtgtgaagg gcaagtcgcc atgatacatg attaagcccg 180  
ccaagagtgt tcaagcttgg tacattcgtg ccttcctaatt ttccaattag gaaactagcg 240

agtggttgaa tggcctgagg ttcccggtgt ggagataatg taattcttta gttttaaccc 300  
 tacagctggg cctaggcttt anggtttttc tccttgtaa ggcattatgt cttttgctat 360  
 taagatatat aatacaagat ctttccttca tctattcttg catcttcacc cattctcatt 420  
 aat 423

<210> 22577  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 22577

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 atgtttgaat attcttatcc tgccctatct atcttacaga agtctatccc atgccgaaca 120  
 tatcaacatc caacgtccta gactatctgc aatcaacaac tatagatggt aatcagagtc 180  
 aaaagacatt aattaccttc ttagcgagag tgttgttttg ttcttgtagg gccttatcct 240  
 gcatcatctg aacataacat ctaatccact aattgcatag atacaggatc tatctacaca 300  
 cgactgcggt ttgctatcat aaaaacatga attccacttg atctaaccat tacttcta 358

<210> 22578  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 22578

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 tatcaagtac atagtccttc aggtgcaagg gagtattact ttgtcttttg ggctcagcta 120  
 tttgccactc gtttctgcta gatgtatcat taccaccgtc ttcaaataac accttgctct 180  
 caaggtgatg aagggactta agggttgacc attcttccca cgatgcttca tcaggatgaa 240  
 gaccctgcc a ttgaactaac actgggtgct ttgggectat gtccgagggc acgatcttgt 300  
 gagccaagat agctaaggga actggaaccg gttggttgtc catggccaat gacggaaggt 360  
 gcatagcttg ttctgatggt ggagatccga tgaagggttt taagatagag caatgaaata 420  
 c 421

<210> 22579

<211> 378  
 <212> DNA  
 <213> Glycine max

<400> 22579

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 aagcttagac gagcccttgc agttcataat cagtattttg tagatgtcta cttgcgcatg 120  
 catatactat agttaaacta ttatacagat gatgggcata aacttattga agcctaaaga 180  
 taaagagtat actgggtgcc tgtgtggtga tgtgctatgc taaaagcacg gaacttggtg 240  
 cccttggcca agttgtgtta gattcactta acctggttgt acagtgcata tacaagtctt 300  
 tactcattta agacattatt acgatgtgta tatgctagtt aatatcttga gggtttctgg 360  
 gcttcccaat acaagaat 378

<210> 22580  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22580

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 tagatggatg tacaatctca tcaacttatct tttcttttga ggtgttcaag gtgttatcgg 120  
 agcttttttg aactatttaa aaatttatag aaagcttttt atagaaagaa tttaaagtag 180  
 agagcgtaag ttcataacca tgtattcaaa gattctagta tttataggtc ttcttcaaca 240  
 agtggttcatt gtttccatat ggatagactt gagctcgcgt ctaaagattg tggctgctag 300  
 agaatttaat gcttgctcta aatgcatgta cttcttcatg ccggaaaacc actcttgtga 360  
 gcctttatgt tactt 375

<210> 22581  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22581

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gatgtctcct ccacctctag aacctcacag ttactcacia actcatctca agctctcagg 120  
acggcttcct cttaaagctt ggttctctgc aggtcttcac acagcaaaat ctctcaaaac 180  
tctntggaac ttggaccttt ctctctctag aaatctctaa tcatgcaaaa gcttcgagaa 240  
ctgcccacaa tcctctccaa aatctgattt cagacttaaa taggtggctc tgtttatgcg 300  
tgcttgacag cttagggcaa ctctgaaccg cttagcccg attagtgaat ntcggcttag 360  
cgcggtgcttt tctcgctcag c 381

<210> 22582  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22582

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gcattagtct tttagattga catgatgcac aaaataggat gtttcatgct ataaaaactaa 120  
ttccttttta ggttatattt taattttaaa ttctgttgaa tattttctcg ctcccttctt 180  
gtgtggatgc agatgctgaa atcaatttcg gccaggaact ctgttaacag tgaccaaatt 240  
aataccattg agcttgaact gcttttcata tacactntct gtgcttatga tatacaaggc 300  
atgctgaatg acttangatc acattgtttt gtcttgattt aacttcaaca aattcatgct 360  
ntatttggtg attctattgc agtataatgt ttgttaacaa ccaattagtg gaaagtgg 418

<210> 22583  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22583

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gaaaattttg caaggataaa ttccaaacat ttgatattt ataagaacaa aaaatatatt 120  
ttagccttgt ttttattggt aaaaaaaaaag agaaatgcta ctaacatact cttaacaca 180  
ctccttcata cacactttct cttatgtggt aaaatgtatt tagttgaaga acaagttcca 240  
caaaatcttg aacctaccaa gtgtgatggg tgggattggg atgagtggga tcanttgcca 300

caccctttgg ttgggcctct tgagaaaatg gtcaaaggag ctttcgaccc atttccaatt 360  
tgattctggt aattggtaat gatctttttg tgaggattct tggat 405

<210> 22584  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22584

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ctttttcttt ccttttctct ctctctctct ctctaatacca acgatcctag cctctcttcc 120  
ttctctttct ctacccttcg ccgtctctat ttctactcgg aacccttctt gcccttgect 180  
ttcctcctct cacctccatg acaacctcga tgacaagttg ttgccttcc cctctttctt 240  
tctccctcca aatctaggac tccgacaatg acttcctcct catcaagtcg gtccttccac 300  
ctcctctatt ggctcaacc tgacactgtg caccactgtc tcttctccg atggatgect 360  
ctacatcgac aaccagattt gcgaggggtg anggtggagg cnttgcgagg gtggacttg 419

<210> 22585  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22585

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ttttaattca agattgaaat tatttcctgg taagttgaaa tccaaatggt ctgaaccttt 120  
catcatcagg aaagttcggc cttatggtgc aatagagttg tatgatccac aatttcagga 180  
ccttgactga acatggttgg tgaatggcca aagattgaaa ctgtaccatg gtggagagtt 240  
tgaaaaggca aacaccatct taaatttgat ataaccatt gaggtatatg cgtcaggcta 300  
atgacgttaa aagagcgctt cctgngaggc aaccaactc tgatttcttt cattntgttt 360  
ttcatgcatt gcataagttg gaatttgctn tatgatcatc ga 402

<210> 22586  
<211> 429  
<212> DNA



<213> Glycine max  
 <400> 22586

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 gaaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc acaagactct 120  
 cattcatcaa agttacaaca agtcttacac atgcttctat ttcgcggccc aacaagcccg 180  
 ttgacacgcg gagatttacg tcatcttcg cgatcacaag atttgtcata ctgacatttg 240  
 agtcacgctg acaggcggag ataccgagt gggtatccgt gtaatctttc ttttgctatc 300  
 tctaagactc aaagcatgat agctagctga gtggataaac gtgcagatat atattatgcg 360  
 ccctttatca ttcagattcc gcaagttggg tgataaacgc gcagagacaa attctacgcc 420  
 ctttgtcat 429

<210> 22587  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22587

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 gtcaaaagtt atcgtcgatt tgaatctgta gatagcttac gttttcaatt atgagcgtca 120  
 cgatatattc gggacacatt cggacaaccc agtacaaagt cattggcgat agaatctgct 180  
 catagcttcc gctttaccat ctcgatacat gaatggatgc attcggacat ccgaataaaa 240  
 tgtcattgac gggtgatttt gctcagagct tctgttctga attttgagcg tctcgatata 300  
 cttcgggacc gattcggaca tncgagaata aagcactggc gtaaaatggc taagagctac 360  
 gttttcacat acgacatcg gatacgtacg g 391

<210> 22588  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
 <400> 22588

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 tattattatt attattatgg ttgtcgtcct taaggatgtc aacgggataa ggcaaggcaa 120

aaagtactta cctgctcccc atccccatcc ctgacccctcg tcgaggacaa cttatttccc 180  
catatttgtc cttcgtggga ccatcaattt tatatatata tatatatata tatatatata 240  
tatatatatt 250

<210> 22589  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 22589

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gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgtagccac 120  
ctccaactga gctcacgtac tcccacgtag tccatatacct cgtttctctc aacaccgggt 180  
ccccatcaat cctcccaagc ttccccaaca tcaaagtaat gcaacattca aacagcacia 240  
actatcacag ccaagaaaac agagcaaagg cagaatactc tgccaaaaca ccaacaaaaa 300  
tcacagcttt tctcacttaa agaccccagt aacaattcct tcgttccaat tcgttaaccg 360  
ttggatcgac tccaaatttt tactggaagt ctctagtaca t 401

<210> 22590  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 22590

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tatcgagacg ctcgaaatgg aacaccgaat ctctgagaaa attcaaacga caataacttt 120  
ttactcggat gtcagattga gtccagaaat atgtcaagat gcttgaaatt gaagacaaaa 180  
gctctgagcg aattcaaacg acaataactt ttactcggga tgtgtgactg agtcccgtaa 240  
tatatcgaga cgctcggaat tgattatcga agctctgagc aaattcaaac gacaataagt 300  
tattactcgg atgtctgatt gagtcccgtg gtatatcgag acgctagaaa ttgaataaccg 360  
aagctctgag caaatgtcaa cgataataac tttttactca gatgtctg 408

<210> 22591  
<211> 397

<212> DNA  
<213> Glycine max

<400> 22591

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cgattacagg tattggtaat cgattacagg cccaataagc cttctggtaa tcgattacag 120  
gatgttgtaa tcgattacag gctgcctggt catgtgtaat cgattacact ggatggtaat 180  
cgattaccag agcctatcct aggctagttt ctaagagaat atctatatatt atgctcaaat 240  
acatcctata tgactaattt tcaactactaa tacactaaat tcaatcatcc aattactata 300  
tacacaagaa atcataaatt ctatcataaa aacaagaatt caaacatgat caaacaaaat 360  
aatctacaat caaaaggtaa aaagtaaatt aaccaat 397

<210> 22592  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22592

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tacgtggggcg tctccttcct tttcctcgc gccactact agggctcttc tgttggtggt 120  
ggggggccaca ttgcaagcat attcgaactt gccttttcgt agtccgaatt caatcctttc 180  
tccggcggaag acgagatcca caaagttagc tggcatgtag cctataagct tttcatagta 240  
gaacgtgggt aacgtatcta ccataattgt gatcatctcc atttccgtca tgggcgggtac 300  
gacttgggct gcgagatctc tccatctttg ggcatattcc ttaatggact catgctctcg 360  
cttagtcata ctctgaagct ggttccgacg gggagccatg tccgtattgt actgggtactg 420  
cctaataag gaagttgcca agtcct 446

<210> 22593  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 22593

agctttcaac attacatatt tggcttgcaa ccataagacc attagcttgt ccactcttga 60

aggttatggc taattagtta aggtcattaa tgataacata aatatttgaa acatttgaca 120  
aatgactaag tagcttaaatt gtaccatatt ttttgatca cacaaatatc tactaccaca 180  
gtaattacat gttatagttg attccttcat ttgattttta gaaataacct tgaattgatt 240  
ataaacaaca aaaatttacc ttttaccact tgtatttgac tttcattttt gtgttggttt 300  
tgggagtga cattagaatt agcttttata gttacatttg tttcaattgg ttgtttatta 360  
ggttagggtt catcaccacc acctcttggt tc 392

<210> 22594  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22594

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ctgtgtaaatt tcttgtaaag tttagaaaaa ctctcaaac atttgttcat cttgagggaa 120  
aggactaagt gctaaaattg cttatttgtc tgtaagacaa taaagtgtc gtcattgtgc 180  
aatcaaccaa caaatctttt attttggtgtt acagacaaca atgacttggt agattaaaga 240  
atattgggtg taacaagctt ggagtaaaac ttaggctaag gatctagaag tgatagtgat 300  
aaatacttgt aacttggtga agttgggtgga acttagtggt ttgccatgga cagaacgtag 360  
tcttggtgat tgagacgaat gaatataaat ttctacgtc ttaatcttat tattttctct 420  
tctgc 425

<210> 22595  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22595

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ctaaaccata cttcccacga ttaccttggg tatttatcag tctagttatg ccgccgttgt 180  
tttttctaa acccatcccg ggctcataac cgttcccaa cataactcgg gccatcatta 240

ccgctgcatc ggacagactg ggctgccccaa agaggaggatc cacggaggaa atgttgacca 300  
 cctcaaaaga ctgganagca gtttctaacg attcttctgc ggcttccaca taaggcatgg 360  
 aggatgggca gcttaccaag atatcttctt cg 392

<210> 22596  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22596

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 gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180  
 aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
 tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300  
 ctgtgatagc tgcangaagt tgttgaaatg gatgatttgc ttcacaaagc aatccaagt 360  
 gagcaacaat taaaaaggaa gggagtggct aagaggaagt ttaccaactt tggttcttct 420  
 agttgga 427

<210> 22597  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22597

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 cggtcactta gaattttttt aaataagaaa taaaaactaa aaatctaagt catgcaatct 180  
 tatatgaatg attaagatat taagtttata atcatatatg atacttaaaa gagtaattac 240  
 atttcacata agtatataag tagcgataaa cacaaccgta aatcttataa tacaagggtga 300  
 taacaaatga ggttagttta ctattgcccc tctaatactc gagattttnt ttcttcta 360  
 tactacattt gcgaaattga ac 382

<210> 22598  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 22598

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 aattttcttt ttttgaataa tgctctcaat atttttccat gcttgatttt tgcataatcgt 180  
 gatgtttcaa ttaattaaac tcgttcagcg tccagatttt aaaaaatata actgatacat 240  
 attagtagatga aagatgtatt ataattgtat atttgtatgg tcgtcgagag agactgacat 300  
 taagaacaat tcttcttagt acacatttgg attgggtcta gcttgtttaa tgtatcagaa 360  
 gtgtactata attg 374

<210> 22599  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22599

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 tgtgcctgag gattgtcgct tgaagggaat gattctatgt gttgtatatt tatcaacccc 180  
 tgaaatcatg gcatccgaat gtctaattag tgtcttgata gtttaattaca caaagtgcac 240  
 catccagata cacaagcgag acacagtaat ttcctttaat gatgaagatt ggcagggcat 300  
 aatatcacat ttgggacctg gagacgaagt ggagattttt gtgacttttg ngcatagatt 360  
 ggtggtgaag aagacagctg tcta 384

<210> 22600  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22600

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 actttttcga cctgtgaggt gaaatacata gcagctactt catgtgtttg tcatgcagtt 180  
 tggcttaaga atttgttaaa agagttaggc atgtcacaag aagagccaac caagatcttt 240  
 gcggacaata ggtcaggcat tgctctagca aagaatccag tgttccatga tcgaagcaaa 300  
 catattgata cctgttacca ctacataagg gagtgcatag caagaaagga tgtacatgta 360  
 gaatatgtga agtctca 377

<210> 22601  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22601

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 aaatttccaa tgaaagcaaa aaagaaaaga aggaaaattc cccaatcaaa gagtgggaga 180  
 aagcaaaaag aaaagaaagg aaattcccaa tcaaagaatg ggagaaagta aaaaagggaa 240  
 ggaaagaaag ttcttgaagg aaaaacagaa ggaatatgca gagaggtctt tggaccggac 300  
 aatatctgaa caatacagaa ttgtcaccaa atgaacgaaa aaagaaagat agggaaccac 360  
 gacctanaat agtcttctcc ctttgat 387

<210> 22602  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 22602

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 tttggaaatg atttaggcaa tttgttctt ataagcttct agccaaatgg acttaccttg 180  
 aattaattcc tttgatagcc ctttgagcc tatgttcccc tttctttggt ttgaagctca 240





<213> Glycine max

<400> 22605

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attgcataga agggaagaag gatgagtggg ttctagactc gggatgcggc aaccacatga 180  
gtagtaacaa ggagtgggtc tcagaattgg atgagaactt tcggcacaat gtaaggctgg 240  
gtaatgatac tcacatagct gtgaagggga aaggtagtgt ttggatgggt gtgaatgaga 300  
ttatacatgt aatcacacat gtatattatg ttcttgaact caagaataat ttattgagta 360  
t 361

<210> 22606

<211> 472

<212> DNA

<213> Glycine max

<400> 22606

gggccgactg ttgttgaaac ctgctttcg tgacctatga aactcagctt gaggagttga 60  
tgcataggaa caatttactt ttaagtgggt cctaattgga ttcctaattt tcaacttacc 120  
tatttgatg tgacatcatg gcatataggt cccaactttc catcgtggat tcagtcacaa 180  
aacaaacttc aatatgttgg actgtctaac acggggattt tagattctat tcccacttgg 240  
ttctgggaac cacactctca ggttttgtat ttaaacctct ctcataatca tatccatggt 300  
gagcttgtga ctacattaca aaatccaata tctatccaaa ctgttgatct aagcaciaat 360  
cacttatgtg gtaaattacc ctatctttca aatgatgtgt atgacttaaa ccttttcacc 420  
aattcattct ctgaatccat gcaagatttt ttatgtaaca atctggacaa gc 472

<210> 22607

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22607

agcttgtagg gttaaagtct cactattgtc acgtgctcat gcaacaattg ttagccgtgg 60  
ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgctg tgctttttct 120

tccatgctat atgtagcaaa gtcattgatc ctatcaagtt tgatgagctg gaaaatgagg 180  
 ctgcaattat actgtgccag ttggagatgt attttcccc tgttttcttt gacatcatga 240  
 ttcacttgat tgtgcatctg gtcaaagaaa tcaaatattg tggtcctgtt tatctacggt 300  
 ggatgtaccc ggttgagcaa tacatgaaga tcttanaagg gtatacaaag aatttatatc 360  
 gtccagaagc atcta 375

<210> 22608  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22608

tgatattaaa tntaagtaaa ttacttgcaa ttcaaaatgt taaattaaat ttaattgcta 60  
 ttatgtatca cgcagtttat atgtaattta ctttttactt aatgattgca aaataatgca 120  
 agttatattt aatttaattg ttagttaata ttttgtaaga gttttgttta gctgatatat 180  
 acatggaact agattgcatt aaagttagat tttttaacag aaaagggttat ttaagtattt 240  
 tgattttaga ataaaataaa aggaaatgta attggccctt gtgcttattt aatgtcaaaa 300  
 ttcctaatat tttttagagg catttgggga agctttcctt gaacacaagg actgttctag 360  
 ggactcaaaa gtgaccaagt ttttggttg gttgtggctg gaggcttctt tgttctgttc 420  
 tttgtgagac 430

<210> 22609  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22609

ggcatgggat tgtacgtagc tatgacgtga cctatagtat gctcaagctc actntaagac 60  
 tatatattga tttcttttagt ttgcattcta tgtgttcctt tccctcaact gagaacctca 120  
 ttggttggtc catataaaca ttctcctcta aatctccatt tagaaaggca gttttcacat 180  
 ccatctgatg tagctccaag tcataatggg ctactaatgc catgataatt ctgaaagaat 240  
 cctttcgtga gaccggtgaa aatgtctctt tataatcagt tccatatttc taagtaaate 300

ccttagcaac aagtctagcc ttgtagcgtt caagggtgcc atgagagtca cgtttagtct 360  
 tgaagaccca cttacaacca actctcttac aaccctttgg taattctaca aggtcccaaa 420  
 ctccattatg ttccatggaa tttatctctt ctttcatgac atttaaccac ttctcagaat 480  
 tatcgcan 488

<210> 22610  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 22610

agcttaaaca ttttatttcg agcgtctcgt tatattacgg gactcaatca gacatccgag 60  
 taaaaagtta ttgtcgtatg aattggctta aagcttaaac attcaatttc gagcgtctcg 120  
 atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180  
 agaggttcaa aattcaattt cgaacgtctc gatataattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcttt tgagttggct cagaggttca acattcaatt tcgagcgtcc 300  
 cgatatatta cgtgactgaa tcggacatcc gagtaaaaag ttattgtcgt tcgaattggg 360  
 tctgaggttc aacattcaat ttcgagcgtc tcgatatatt acg 403

<210> 22611  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22611

tacgacaata actntttact cggatgtctg attgagttcc gnnaaanatc gagacgctca 60  
 aagttgaatg tttaatcttt aagccaattc atacgacaat aactttttac tcggatgtct 120  
 gattgagtcg cgtaatatata cgaaacgctc gaaattgaat gtttaagctt tgagccaatt 180  
 ctaacgataa taacttttta ctccgatgtc cgattgagtc tcgtaatatata tcgacacgct 240  
 cgaaattgaa tgttgaagct ctaagcctat tcaaacaaca ataacgtttt actccgatgt 300  
 ccgattcagt gacgtaatat atcgagacgc tcgaaattga atgttgaacc tctgagccaa 360  
 ctcaaacgaa caataacttn tactccgatg tctgattgag tcccgtatta tacc 414

<210> 22612  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 22612

agcttcttca catttccgcc tttgcttgac cttctttatg cttaaaaaca gaaacattat 60  
 gcataggcaa aagatcaaga ggagtttagtg ggttaaaacc ataaacaact tcaaaaggag 120  
 aacaattagt ggtgctatga acagctctat tgtaagcaaa ttcaacatgg ggtaaacaag 180  
 cttcccaagt ttttaagttc ttcctcaaaa ctgtcctaag caaagttccc aaagtcctat 240  
 taacaacttc cgtttgccca tcggtttgtg ggtgacaagt ggttgaaaat aacaatttag 300  
 tgcccaactt gctccacaaa gtcctccaaa aatggcttaa gaacttagag tccctatcac 360  
 taacaatgct ccttggcaaa ccatggagtc tcacaatctc ctt 403

<210> 22613  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22613

cacatgagtt tgacaaacct ttaccatat agtttttact ctctggtaat cgattaccag 60  
 attattgtaa tcgattacca gtagcaaaat tgttttgaaa aagttttcaa attgaattta 120  
 caacgttcca attattttca aaaagctgta atcgattaca atgtttgggt aatcgattac 180  
 cagtgccttt gaactttgaa attcaaattc aaatgtgaag agtcacattc tttcacacaa 240  
 aagctttgtg taatcgatta cactaatttg gtaatcgatt accagtgact gtttctgata 300  
 aatcaaaaga tgtaactctt cacaagggtt ttgactttnt caaattgngt ttaagttggt 360  
 ctaaaagtta taactcttct aaatggtctt cttgactaga catgaagagt ctataaaagc 420  
 aag 423

<210> 22614  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 22614

tctttcaagc ttattgcaac ttattcatat acgcaactga acgatatgctg acgagaaaaac 60  
gtatatgctc ggacttaatg cgggctgcag caccggctcc gcttccctaa ctgtactaca 120  
ggcgggtgcc gaggtctat cctctatggt tctatggagt ttcaacatga cctgtgagat 180  
agaagacaca tgagacatta atgaccttct tatcgacagt gttgtttagt tcctgtaggg 240  
ccttattctg catcatttga acataaaatt aaatccacta attgtatagt tagaggatcg 300  
tccacaaaac actgatgggt tgatataaat tataaattag ttcttcaata tatttaatga 360  
ttactaatat tgaaattaca tatgtataat acatctgacc t 401

<210> 22615  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22615

tctatcaagt ggtaatcaga gcacaagagc ttcaagtatg tgctccttaa acctccatta 60  
attnttttgc ttaccttct cttccattgg tgtttcttca ttttttctcc atgtatctcc 120  
tcacatgtct tgtgctaaat gttgttaaca tgattcttta gagtttccac cgattaaact 180  
tgctacagaa gctagatttg attttctatg gttcanattt cttgttcttg ttcttgaacc 240  
gtgaattgtg ttgagtttaa gttcctttga gttttgtctt gttatttttg tggctgagac 300  
ctaaacaata naattcttac aaaaatatta tagtagaaga aaacctcana aatctagagt 360  
gactttgttc acctattgta gtttgcata gaagtcatgt ctagtcatga aacttatc 418

<210> 22616  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22616

agcttagtta gtagggggcc tgatgacctt gctaagagca atgggcactc tgtagaactg 60  
accgcattca cctgtccctt tggcactttt gtctatagga ggatgccctt tggcctatgc 120  
aacgcccctg gtaccttcca gcggtgatg cttagcattt tcagtgattn tttagagagt 180  
tgcatagagg tttttatgga tgattttact atttatggat cctcttttga tgcattgttg 240

gatagtctag atagagttct caatagatgc attgaaacta accttggtgct aaatTTTgaa 300  
 aaatgtcact ttatggtaaa acaaggtata gtcttagggc atatcatttc tagt 354

<210> 22617  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22617

tcctcggggc cattcctgcg aaggcaaaca tttggaatgt taattntacc agtgggacac 60  
 tatecttaaa gcaagaatgg catataacct cctcccataa atacaaacat caatgtaaT 120  
 ttagagcaag cttatgcgca tatttcctta cgaacgttct cttgcacaag acattctatt 180  
 aactaagaaa aatgcaccca tacacaatca aggcagcttc gttacctaga ttattttacac 240  
 gtattttcaa ggtgtatttg ttacttacat cacacacatc tccttggcta aattttacata 300  
 catgcatact caaagcattt tggggtagca aaaattgcac atgcgcacat cttgggtattt 360  
 ctaacaccta tacatacaca aacttcatga tgaatcttga ctatcttcac aaaaaggtgc 420  
 tacact 426

<210> 22618  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22618

tctggtggga catcttgact tgctgtccaa tctgacattc tcctcttatt ctgccttctt 60  
 ctattttcag attgngaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattcttct ttggagaata 180  
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtagcagttg tcctttgatc 240  
 tgctgccctt cattagaact tcactcttct catttgtcac taagcattct gactttgtga 300  
 agtttacatt gaatccttca tcacacagct gactgatgct gattcaagtt gtagtcagtc 360  
 ccttcaccag cagtactttg tccagactat gaagtccatc atggact 407

<210> 22619  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 22619

agtcttttta catctttggg ttgttctaag cacgagaagg tgacgggaag aaaaggggaa 60  
 aacactacgc atttcctagg tttttctatt tgatcacttt aaggtaaagt tttatgaccc 120  
 attatgtag atgagtatgt tataacattg attagtcatt ggctgtgaga aaaagagttg 180  
 gaaactaagt attagagatt attatgattt tctcaaaacc ctaggcttgc taaaattggg 240  
 gattttgtct aatcccttgt tccattattt aaatgcttag gttctgtgga aaatacagt 300  
 gttgaccttc ctaacatcgg tagaagtcaa tgattggcgt tattaggtga gtagctaata 360  
 tacttagcga ttttcttata gttcaattat ggaga 395

<210> 22620  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22620

gaattacaca atanaacatg ccttggtcgt ttaaatttat ttccctccct tgctacaatt 60  
 atatttcact taattggaca aaacttatgt acaattttat tatgggtaat ggtattatta 120  
 ctctatgtca tattgctcgg tttttttttt tttaaatata cctttttttt ctaatttatt 180  
 gtaatttaat ttccaatata cttgagactt tttctctcct ttttgttttt tttacttta 240  
 aatattatca aatataaata ttatattata taattttttt taattggntt aaaattactt 300  
 atttatcaaa ttaaattata taattatgtn ntttaatttt tttactaaga tggactaata 360  
 ataaaataaa caagataacc anatataatt gtttacgttt gtattgataa tcaatata 418

<210> 22621  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22621

agtctctctc ttttcttcgg ttgccgagg cggtccttcc gtggacaaaa ctattgggtg 60

tgtcgcgatg ttgggttgag gcaacgtgct ggggtgccggc ccttcgggga tcgggggata 120  
 gaactcgaca tcccttcgag catagtcttg agggctcttg tgggcctcgt cgggctgttg 180  
 agaaggttct ctttcaagga cgggagaagc aatatggacc gcatcgtctt gcaagacggg 240  
 tggtagtag taggcggca atccataagg gtaagccgct cggttgatc ccaggtagg 300  
 gctgccatcg tgcctagtg tgtcatttcc ctgtcctact atgttngagg gaggatggtg 360  
 cgcagttgcc aagagagttg ggtct 385

<210> 22622  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22622

tagcgcacag gcgcgcttag cctaactact aaagcttatt aactgtgaga gagttgagca 60  
 tagcgcagca gggcacttag ctcaacacat gacaaaggct tagcgcacag acacgcttag 120  
 ccttattcaa aggaaaactt acaaaagcat agtggcgctt agcctgatag gccaggcttt 180  
 gcgctgaaca aaaattctca aaatcttaat gtctgaacac tagttctgct tagcgcacag 240  
 acactcttag cgggctcatc acttacgttc atcagtatgg atgaacgcgc gtancgtgac 300  
 atgatccgct tagcgcgttc atctggaaat gtaatattct aacaattgct atgaacaggc 360  
 taagcgcagc acgtgcgctt atcacgttca ttgcgatt 398

<210> 22623  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 22623

agcttccaac cctacccta cccctctctt aactcattcc caattatgga tgtaacaaa 60  
 tccgcattga aagtatgacc aatgatattt tataacatgt ttgggggtggg tgcataattt 120  
 tagtttttga ttttcaaatg taatttttga aataaaatgt gcttgacaac aatgattgaa 180  
 ataatttata actcattcaa agataaaaaa gatttataaa tttgggtttt agtttttagaa 240  
 aaacacattt ttcttatatt tgacaatgac cattttcgtc accaccacca gcacgggttg 300



tctgtcacca ccaccattgg aactacttag tggcaaagca cggcccaatt agttaaagg 360  
gccaaaatag ttaagcaacc a 381

<210> 22624  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 22624

tgccttgtcc cttgatatat ttgatggact catggtttct atgaatgaca aattccttgg 60  
gataaaggta gtgttgccat gttttcaaag cccacactaa ggcaaacaac tctttatcat 120  
aagttgaata gttaagggtta ggaccactta acttttctact aaaataagca attggatggc 180  
cttcttgcaa caacacaacc ccaatcccaa cgtttgaagc atcacactca atttcaaaag 240  
atttttgaaa gtttggaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300  
tgaaagcttc ttcttgtttc tctcccat tgaaccaac attttcttg agcacttcat 360  
ttagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa ctt 413

<210> 22625  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 22625

agcttgctag agaagccatg gctttctgta tgatgagttg ctactaatgc tttggctttg 60  
atatgttgct tgaatctcat cttcattgcc acatggccaa cttcatttat ttgtgtagaa 120  
tttgcaattc attcatgtca tgccatgtgg tttcaagatg aataagccta tccacttagt 180  
tgcattctctt tgaaagataa catactacgt gtgctgattg agcggcaagg tatgagaaga 240  
tgcattatctt ttatacagag gattagctta tacaacttac gtaaattgat ttacatgtta 300  
atttgatata ctgtcagtta cagatatgta tactattaat taattaatct aacttttgaa 360  
ggactaatca taaaaat 377

<210> 22626  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 22626

ctcagcttac catcgatggg acaatggtac cctttgactc tcaacagacc cagaattctg 60  
acaagctgcc ttctcaagct gtccaaaatc ccaaaaatgt cagtgccatt tcattgaggt 120  
cgggaaaaca gtgtcaagga cctcaacccg tagcaccttc ctcatctgca aatgaacctg 180  
ccaaacttca ctctactcca gaaaaagggtg atgacaaaaa tttacctaac aattttctgtg 240  
cagggtgaatc ttcttccaca ggtaattctg atttgcagaa gcagcacatt cccctcttc 300  
cattccctcc aagagcagtt tccaacaaaa aaatggaaga ggcagagaaa gagatcttgg 360  
atacattcgg aaaagtagag gtaaacatac ctctgctgga tg 402

<210> 22627

<211> 360

<212> DNA

<213> Glycine max

<400> 22627

tcttgcttca tgcaatcttt aacaacggtg gcacgcctcc ttcgatgatg agtttcccg 60  
aacggtcggt gtcgagagca agggagacga gggagcggc tgcgtctgaa cgttcggtcca 120  
aggaagcacc ggagagaaga atggcgacct gttcccagat gatgcagaga atgggctcgt 180  
tggcgcgcat gggagggagg cccagggtact cgtcgtagcg ctgcgtcgcg gaggcacgtg 240  
ggacgctcgt agaggtcgtt gctgttcttg gcggcctggc ggatgaggcc cgccaacttc 300  
ttcagtttgg atttcagctc cagacattcc tgtcggaat tctggctctc ttccgcaagc 360

<210> 22628

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22628

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ttattttgac cgacgtattt tcgacatatt tcgctatatt tcatgttttc aaaatttttt 120  
tctttttttc ttttttcttt cttctttaat gttgatgtat tgtattctcc aaactaaaag 180  
tgttttcaac acattctagc ttatgggggt attagacaaa attaatttag ttagttacta 240  
gaagttattt tctataataa tttttttcta atgtttaaaa ttggcaacta ataacatgtt 300

tatggtgatt tatttgaaa agtgggaagtc ccacgtatat tgngtgcatc acataggtat 360  
gcattgttaa ttangataag ggattatgaa tgcaaaggaa 400

<210> 22629  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 22629

agcttggttaa attaaatttt acaataataa ttacctaaaa gtcataagta gtatttatta 60  
caatttttag tagttttttt tgtgaataca attttttagta gttgaaagtg taaatatttt 120  
ttatattggt tgcataataa aattaaacta taaaatgaat aatataaagg aaattataga 180  
tagtagtata atacgtattg ccttaataaa ttagcacgct gggcgtgtat acatattaca 240  
tagagtggag aggaatcagg aaaccgacgt ttgtggaaat tatataaaaag gtatgcaata 300  
gggttgggtt agataaaaac ccaaaacaca acacggcagt gaagttatta gaatctgtgt 360  
tgtgttgtgt tgtgtt 376

<210> 22630  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22630

tccaaatctt anacagttgt ctgaacctcc tcatacttac caggtgatgt ctaatttgta 60  
ttcctcgtat ctttctttgt ttgcatcatt gagctctgat ggcttgctta tttgaaacca 120  
attttcgatt ttgtttttca tatatgattt gcttttgtac tagtttgaaa caagtctcac 180  
tgtttttctt ctgtttttca ttgctttttc ttctgcctcc tcttgctgtc tgcttttttt 240  
tgttttttta gttaatgagc ttatccagaa atgttctact tctccccatt ggtgtctgat 300  
ctgatagtgt gtctcatctt ttatgttacc ttaacctta tgatgaaata ttactatgct 360  
aaatttcttc ccattttaat cttatgccta aaattggaaa cttcagtttc ggctttaaaa 420  
agtt 424

<210> 22631

<211> 374  
<212> DNA  
<213> Glycine max

<400> 22631

agcttggttat gtatgcctac atgcagcgaa tccaaattaa attcttatct agctagttaa 60  
gcgagtgacc atccatctat taataagatt taatcatttt caaattgaac tgtacgtcca 120  
actgaacaat cctctatgtc ttttaagttc ggtgtttctg gaattgtatt gcttgtcttt 180  
cacgtttgca cgcacttgga gaaattgcga attgtttacc tgagaatcat atcatatatg 240  
acagattgaa taatagattt tgtgtcaagc acaacctttc agtctaacat caatagacat 300  
caagtatggt acgagtttgt gtaagtatgc aattcgccga ttctaacatt atttttacaa 360  
gacttattgt aaag 374

<210> 22632  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 22632

agacaattac aaatggccag ttagtggaac acatatttta ctgtgattat attccacaaa 60  
ctggtgttag gaatgaaaca aacttgcaaa atgtatttct gaaggccttg ccaaatttgg 120  
tgcacatatg gaaggaggac agcagtgaac tacttaaata taataatctg aaaagcataa 180  
gcattaatga gagtccaaat ttaaaacatc tctttccact ttctgttgcc actgacttac 240  
aaaaactaga aatccttgat gtatacaatt gcatggcaat gaaggagatt gttgcttggg 300  
gcaatggttc aaatgaaaat gctatcacgt ttaagtttcc tcagctaaac actgtatcat 360  
tacaaaattc agttgaactt gtgagtttct acagaggaac tcacgctcta gagtggccat 420  
cg 422

<210> 22633  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 22633

agctttgtat gctctattca atggagttga caagaatatc ttcagactga tcaacgcatg 60

cacagtggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120  
 gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180  
 agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240  
 gggagagagg atgacagatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300  
 atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360  
 tgaactcatt gggt 374

<210> 22634  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 22634

tgtagccatt agaagagaat gagcatgtga ttggaagtat gactaataat gttagtcagt 60  
 ttgtcagatt gattgtgaag gaatgcattg actgtatccc ggtgagagtg tgaacttta 120  
 attttgagag aaacgattat catttagtac tgatttttgc atgaatctct gaagtatgga 180  
 ctggatgcat gaaattgagg atgatgaagg ccatgtttga ttgtgatagc cacttagcca 240  
 aaaagcttac cacgtgcttg aatgatttat cccttgccacc cagtttgagc tgaatgaatt 300  
 attgattgat tgaaccttga gcctatacag tgttatctct tgctaccttg acttaggctg 360  
 taggagagca tcatccacag gaagcatggt gcaaggtaaa tttgttccaa atttatggga 420  
 ggcaactg 427

<210> 22635  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22635

agcttatcaa acttagaaat caagtgatca tgtattccga aaaatagggg gagtaaacga 60  
 atgcacatct tatctatata caattgtttg ttgcttgctt gaatcttgat ttcaggtatt 120  
 gtattgtcat catcaaaaag ggggagattg tagatgcaat tggctttgat gttttgatga 180  
 tgatcatgat gatgtgttgc aattgatgca aatgggcttt tcaagattaa aattcaagac 240  
 aatacttcaa gattacaagt cacaacatca agatgatcac tagaatatta ggaagggaat 300

tcctaattga attagcaaag gtttggccaa gtgatttaaa ataaaaagtg tttttcaaag 360  
gtntactct ctggtaatc 379

<210> 22636  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 22636  
tgaagggact cccacatttc ctggctctaa tatcccttct aacaaaatct ttcttctac 60  
acctatactc accactcctt tcacaaccaa ttaacacaaa tgaaatcctt cctctactac 120  
cagtgtttgt gtcagacctc ataatgactg tcataaatcc gttttcatga gcaacggatc 180  
aagccctactg caaaacatca tttcgggtac caaacaccta taacgcaacc cacaccattt 240  
tagtcttcta agggacattg attttatgaa aataataaca aaaatcaaca ttattaccta 300  
agaagtattg aatgcattcg aacaatcaac atgctgctca ttcacaccac attcctgttc 360  
attttgatca tccatatcaa cttcttcaaa cattatactg tcatacatcc attgatctcc 420  
atccatctta 430

<210> 22637  
<211> 382  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 22637

agcttcacac aggctaattg ttcactctaa ttccaaatca catatatgtc ataaatggat 60  
tttgcaagtc atttcccatc aaataaagga taatgtgcat aatcatcatg gatcaatagg 120  
attttttaag atcggacttg taggaaattt tggatttggt tgctttgggc tttttttttg 180  
tgtgtgtgtg agtaggagag taggcacaaa gatttggtta gtaacttaaa cggtcgatca 240  
cttctatcc cttcacgtct tgaccaagtt actatcgttt cccttccttt ttactcttta 300  
ccacaactct gtacatgggt tagacattgt ttgttccaaa gaactcattt ttctttacca 360  
ttcctattg ntcttctcca tt 382

<210> 22638

<211> 441  
 <212> DNA  
 <213> Glycine max

<400> 22638

tagaacccta gcttatgcta caaacattta taatacaccc cctcagtagc ttaaccaaca 60  
 atagcagaat aattatgata tttcaagcaa cagatacaat ccagggttga ggaatcatcc 120  
 aaatctgaga taggcaagtc ctccacaaca acaatagcat gtccctcctt tccagaatgt 180  
 tgttgggtcca agcaagccat atgttcctcc tctaatacag cagcaacaac aacaattgtc 240  
 acaacaaaga caatcggcaa ctgaggctcc tcctcaacct tccttataag agatagtgag 300  
 acaaatgacc atccagaata tgcaatttca gcaagagaca agagcctcca ttcaaagtct 360  
 aacaaatcat atggggcaga tggctactca gttgaaccaa actcaatccc aaaattatga 420  
 caaattgcct tcacaaactg t 441

<210> 22639  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 22639

ttgcttgatg gaaacctaca cgcttaggtt ccoctgagac actaactggc tataatacaa 60  
 aaatctgcac atgtctctag acacacaggt ttatgtcctt gtgacgacca acacacagac 120  
 tgttgccctc ctgtgcaaca ttatgtatca attgaacaga ctgaagctga tgctgcaaac 180  
 atctacaata cacctgcgtc atctaagaat cgcacgctgg ccagcatac caattacgac 240  
 ctgtggagca gcatgcacaa tcctacgtgg aggaatcata cctaccttgt atgcacgaag 300  
 gcttggttac agaaaaaccc ataacaccac cctccttatt agcataatga atctggccca 360  
 gcagccatac gt 372

<210> 22640  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<400> 22640

tgggggagac atcgagtgag aactgaaggc gggcttggtt gaaacctact ccgactattg 60

ctgtgtatac acagactagc tctggatcta tgtggaaaca agaactgccg atatggatca 120  
 gtctaataat ggtgtttggt gtaactccat gaatgaaagc tgagtgccta aatcaatgca 180  
 agcatggggt atgaatgaat gaacagccat gctccctatg gatgaaggct cttctagaac 240  
 ctaaactttt ttgcattcct ttatccttat gaggaacaca atggaggctc cattgctc 298

<210> 22641  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 22641

tagctttgag ggtgcgagc ccaccatctt ttcatagtag agtaccgata atgtgtctac 60  
 catcacgatt atcgtctccc tttttgcaca tgttctgtag ttgcatccta tctggaacca 120  
 tatcagaata gtactgatac tgcctaacga aggcaaccat taggtccttc caagtatgga 180  
 ctcggaagg ttccaagtta gtgtaccagg taacaactac cccagtaaga ctttcttgga 240  
 agaaatgtat tagcagttcc tcatctttgc gtatgccctt atcttccgac aatacatctt 300  
 tggatgggtc ttggggcaag tagtcccctt gtacttgtca aagtccagca ccttgaactt 360  
 gggaggggtg atgat 375

<210> 22642  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 22642

tgtagaatgg ctagacatga tacatgttac gggttgtttt ggttcacaga tttaggggat 60  
 gccccacatt atttccatga cacaaatgca aagatgatga tttggaaact tcatgcaaaa 120  
 ctggatcatgc atgcacctat gtggacactc aagtgtcaaa cttttatggt catgtgatgc 180  
 tagggctcag gatttaaate aaccaatgt ttccaaaata tggtctttta tccatttgtg 240  
 cattcatccg agtccatttc cggcgtccgg ggaaatttca cagtgttcac ctttcagggtg 300  
 tagacacatt ttttttcaaa aactagtatt gatcaatgaa cttttttcaa agataagttg 360  
 gaagtcatct cttttcaaaa gcatgtcggc ttttcagcta aacaacttat tattatttt 419

<210> 22643



<211> 375  
 <212> DNA  
 <213> Glycine max

<400> 22643

ttgcttacat aatactgata catgacatgt ttattgcacg ctgccctaca agtttattat 60  
 tggaacaggg tataaaactt ggggaaattc catgctaata aaagggtgtgt ataaatcata 120  
 ttaataactc acaattcacc ctctactgga cattagagct tcccaatgga tggtcaccaa 180  
 cctgatatta atatcttga ctcataagat caggatcaca ctaagctata tttgcagcta 240  
 gctttcagat tatatatcat gtgaaagtag atatagctca cgcattatag ccggttatac 300  
 catctaatta ttagatcttc catatagact atgctcaagt tcgagcattc cctattccgt 360  
 tctggacctt ggata 375

<210> 22644  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 22644

tgctgatggc agggattcaa tctctttcat aaaccattat ctaactaata caccttgtaa 60  
 acagatatat acaagtcagc aacactgacg aagagaatgt attgtaatca ctggttatta 120  
 ttgttataat gtgaacactg ctttccatgt ccatgtcaat gccataaga acaccaggat 180  
 catattttacg tagtaattgc ctttaatcca cattatgtgt gacagtgatt ggcatacaat 240  
 gaaatatgtc agagagatac cttaaccaat gtaaattgac tactcccctg gcacacagga 300  
 aaataatctt gacagcaatt cttgctgcct ccatcctgtg aatatttatt ggccatatat 360  
 acaccgctta gatctcaact ttcggcactc tgacca 396

<210> 22645  
 <211> 187  
 <212> DNA  
 <213> Glycine max

<400> 22645

atctatatag gttcgggtgt tgctagccag catcttgttt gcaggactag cctagtcgtt 60  
 atcaaaatgg ccgtgattga aaacgcaatg gacactgctg atgtgatgat ggtcatgatg 120

atctggagaa atcgttgacag gctggacttg tccatagctg atgaaggact atgcttcatg 180  
actctgg 187

<210> 22646  
<211> 492  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 22646

nttgacacct agttgttccc gctagccatt ctgagacact atcgagtact ggacctcgac 60  
cagtactgat ccgtatgggc tttatgacga attctgggtg ttctcacgct gcaggcgacg 120  
acgggtccatt acgcgccac catgacactg aaagtaactc tctggcgata gctaccatgg 180  
aaagtgtaca gacgctcgga atgacttgcc ctaatattct gagagctgta tcagaaagag 240  
ctgaccacag tgattaccac gactatatgg tgccctgacag atgtatatac ggcggcgaga 300  
gaataaactg tcgaaggaca ttgggcttat gaatgtacga gctataaaca gcattgtgac 360  
ctatgaagca cgaatagatt gcaacaactg acatgctgcc tatatccaac acatgcccgg 420  
cttgtccgat cattcatata acctatttgc aacactatac tgtcgtacat acatcggatc 480  
tcatgcctct aa 492

<210> 22647  
<211> 379  
<212> DNA  
<213> Glycine max  
<400> 22647

agcttttcta caagtcttaa ttgacattct aaactagaat caactcactt tagactccaa 60  
tttocactaa ccccaaattt ggcttttcca accctcaaaa totcacactt ttccactcac 120  
aacattacca ttctcacatt taaccctagg ttaactctcc ccatcatctc tacatgtttt 180  
ctatcaacat tttcaacata catatatcac aaagcatcat cataaaaccc taaatcagca 240  
tgggtaattt agctcacatc aaacatgtca agtttagcat gatttcaaca aattttcttca 300  
caaataacta ccctaagaca ataacctagt agaagtaccc atcatagctc ccaaaaaccc 360  
aacacccacg aatttcaag 379

<210> 22648  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 22648

tctacttatg tggcagggcg ggctttcttc actttcttgt ctccaacgcg agctttgacc 60  
 actgttcttt cttcccgcga tgetttcttt catgtccgcc tgagtgggct tatagcctaa 120  
 accatacttc ccacggtttc cttgagtatt tatcaggcta gttatgccgc cgttgtctct 180  
 gcctaaacct atcccgggtt cataaccgtt ccccaacata actcgggcca tcattaccgc 240  
 tgcacgcgac agacaaggct gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
 aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
 tgggcagctt accaagatgt cttcctcgcc tgacacgatg accaagtgcc c 411

<210> 22649  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 22649

ttggacattg gtaaaccctt catctgagct ccttatttga ataaaatctc ccataataca 60  
 ctacagcccc ccattcatta atgggtcaac ttttttactg gatcccacaa aattctttta 120  
 ttgtgtatgg cacatggaga ataaatagta acaagggatga ccagttgtgc ttcttgacc 180  
 cattccccaa ccagtaaaat aaaatcatta ccagtgattt ccctctgcag gttaaaagat 240  
 ttatcactcc acaaacataa tatacctcct gctgtattga tagctgtgaa cacatttcaa 300  
 attacctctg tgtgtgccca tatagactga gacat 335

<210> 22650  
 <211> 120  
 <212> DNA  
 <213> Glycine max

<400> 22650

ttcttgcaag cttgagatga cgaagtgctg aagggtgaaa cttcctgctt ttattgctga 60  
 ccacagagtg gtacctgcag atatgtcgcg ggggtcacga caccttggtg acgttctgtg 120

<210> 22651  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 22651

ntaatgagat atgcgagaaa tgagagaata gcacatttaa aaatgttaaa atgaatatat 60  
 gattatacaa aaaggaaaaa taataattat aaaaaaaatt ggaatattac caattgagga 120  
 aacgatgata aaaaaatcga tcaagataat ttgatcatgt atgaagaagg caactaaagg 180  
 catcaatcaa aatagtagaa atagtccaaa gagatcttat ggtaaataat attcttaact 240  
 ttttttgttt ttaaccttgt caaatgacat catgtaatct ataatgtcaa tcttacctat 300  
 taggataaga attttctatt attgttattg gtttcaaatt ttcaaataata tacatgtatg 360  
 agaattgaga atcatatata aaatacctaa cataaaatat gcttat 406

<210> 22652  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 22652

agttgtgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60  
 ttaccctcgg gagcaaaaaa gaaaagaagg aaaatttcca atcaaagagg aagcaaaaaa 120  
 aaaaatggag agaaggaaaa tttccaatca aaggaaagga aattccctat caaagaatgg 180  
 gagaaagaaa aaaagagaag taaaaaagaa gagagctcaa ggatcgaaag aaaacagaag 240  
 aatgtgcag gaaggtcgtt ggaccacaca atatctgaac aatacagaat tgtcaccaaa 300  
 tgaacaaaag aaagaaaagg aaaccacgac ctaaaatggt cttccccctt taattgccaa 360  
 ccaaaatctt gtgcgct 377

<210> 22653  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 22653

tgcttctgta cagactgtga tcaacacttg tgcccgttt atccttcgac agctttaagt 60

gagtaggtgc acgtgttctt ctatgactgg caatttccat tccgaactta ttacgatgg 120  
 tctttgcatt cttgctttgg gagaagaaca tgaaagcttt ccttttgttt tgcttgggag 180  
 ccgaaaaaat aagtctcttt tccaacgaga ctcatattgaa attcatattg catctgtggt 240  
 acaaaatgtc aaaccatttc ttctgacatc cctccaaaca ca 282

<210> 22654  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 22654

tgtctttctt tcttttgggtg aagcgcatga tataaagact aaacaaatta ttatactata 60  
 ttctgttcaaa gcttgtattc tacatggcgg catgctcggt tacatgggag gaattttaat 120  
 ttttcaacct gatctatact tataaatctg cgataatctc ttccaaaata 180  
 caacatgttc cttattaatt tatatgaaag tt ccttgaaat 240  
 actttttatt tatatttatt ctaactcgtc t taaagtc 300  
 ctt agacgatat ttggacccaa ata tca 16

2  
 36  
 <212> DNA  
 <213> Glyci

22655

ctca agcgtgtat tgaacgagc aactacaaac ttatattaga 60  
 aagatcaccg gggcgtgt aaccaggtt tggagcttt tatata tt taaagcc 120  
 tagt... 30  
 ...ccca ...ccaca ... 10  
 actatcaaaa gtgcaaagtc aagacctaa aaacaggatt caccaaagtc 10  
 gcaaagtcca catcaaaacc aacttctcaa tcacaacctg ttaca 360  
 actacaaagt ccaccaactt 380

<210> 22656  
 <211> 422  
 <212> DNA

<213> Glycine max

<400> 22656

taattccatc acttaatttc ctataatgtt caatcattag caacactatc tttaaaccatc 60  
tgaaccttta ccgtaaatac cgcatacata ccaatgttgt caaaaacgcc agttaactcg 120  
gtgagtcgta cgagttacaa gtttctgagc ctttgtcgag cttaatcgga ccaaagaatg 180  
gagaaagttg gagaatggca atgaaatgtg agtttactct acagaacgaa agaacattaa 240  
ccgttttttg ccaactgctat ttacacttct ctttaaatgct aatgcactcc cctcctcacc 300  
tttttgtccc caatctaccc cacgtgtaac gcttatgaaa aagaatgata gtgtattgga 360  
gtattagaat aaagggggag tgttgtatca tctacttact tttaagtagc atatgtcttg 420  
aa 422

<210> 22657

<211> 362

<212> DNA

<213> Glycine max

<400> 22657

agcttttgtg gagcttcaat ggagaatgag ggagaagaaa ggcaacgtga gggagagggga 60  
gagagaaggc ttctgcaatg ttttctgctg agtgaagaga gagagagttg ctttttggtt 120  
tttaaaaggc ttttctctct tttcttatta ttttattcaa gctctgccac atgtccctat 180  
ttgattggag caaaaagggc ccactttctc tttttgactg tgaccatac tcagtcacaa 240  
aagtgagaaa aatctgacct ttgaaacgct aaaatcctgc ctcggtttgc gtgccgtttc 300  
tctggttcca gtttctctg tttctctgcg tccgtcggcg ccagttttcg aaagcaagca 360  
at 362

<210> 22658

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 22658

agaggtgtgt tgaaaccttc tttatatctt tatagttatt tgtgtgataa tgatttttgtt 60  
tatatgtgga gactaatata gttttttttt tcttttggtta aggaatgggt tttagcttcc 120

agaattgcag tgcctgacaa cctgggtctt cgaatgcgtg ggaggaccat ggtccggcca 180  
gctccaccat ccaacaaaacg agaactatcg tgggtcggcg atgttggttt tgttggtgat 240  
gcttggtggc atgatggatg gtgggaaggc attgttggtc aaaaggactc ggaatctaata 300  
tgtcatgttt atttcccagg tatgaatgtc tgctctttct atgttaatta gcttatgttg 360  
gtaactgttc ttttgggtact tagattatga gctcgntttt ttatttttga ttaattccta 420  
tgg 423

<210> 22659  
<211> 383  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 22659

agcttctccc ccaattttct ataaataggg ggagaagtga agtgaaaaag ggttcagccc 60  
cttaggcact tatctctctt tcgaatttgc ttggaaaaat tgtttctgtg aagaaaatcc 120  
aagccgaggc gcttctgaaa cgttttcgta acgtttccgt gaggaatttc gcgaaggttt 180  
cgaccgttct tcgacgttct tcattcggtc ttcacgttcc ttcgatcttc aacgggtaaa 240  
tacctcgaac caagcttttc gattcattct atgtaccgtt ggtgggtccac attgtgtttc 300  
gtgtattttt atttcggtt catttacttt ntatacccc ctttgacgtg ctttaagccat 360  
tntatttaag tcatttctcg ctt 383

<210> 22660  
<211> 449  
<212> DNA  
<213> Glycine max  
<400> 22660

gtgacactat atgaactcat gttgcccacc cagctcgccc aggcgagctc agctagccta 60  
ttcgagcagg gttgcttctt ccagaagtaa cagccttctg gagggcccaa gtgggcctgg 120  
ttgctatttg caccgccatt ttactaagt acaccgccatt gccttttttt ttgtgattct 180  
tttttcgtaa agttacggaa acttatgaat ttcgtaacga tacttggttt ctttccgtaa 240  
tgttacggaa ccttgcggtat tacataatca tccccctttt gacttacgga atgttacgga 300

acctcactaa tcacccccctt ttttgatttc cgggtgtgtca cggaacctta cggattgtgc 360  
atcaatattt tcttttgttt tccggcatgt cccggaattt cacaaattgc ctaatgatgg 420  
gtgccaagca cctcacaagg accaaacaa 449

<210> 22661  
<211> 158  
<212> DNA  
<213> Glycine max

<400> 22661

tttcttactg gaggccatgc ctgcactagc agacctcacg aaagttccat tacaagtgat 60  
gtgacaggct atcagaatca tggcccgacc ttctattctt aggttggcat gactgcaggc 120  
gctctacatc ataatatatt tgaactcgtg cagatgta 158

<210> 22662  
<211> 229  
<212> DNA  
<213> Glycine max

<400> 22662

tgtcgccaaa gcatacggtt aaagatgtta cccattttgg tagatacctc cacagaggcc 60  
ttatgtctaa ctgaccaag cttatgaacg accatcgatg tgcttcacct atggggacta 120  
ttcagctcat accaatgatc taagaatgtg tgaagatcct ttgattggct gtacgggaga 180  
gagcaacaat acctcttctg agggccttat ccttcattag ctaaaattt 229

<210> 22663  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 22663

tgcttgaaga atatatcatc tttaacgctt tagaaatcac ttattagtgt ttggaaaaat 60  
tattggttga agtagttgaa aaatgaaaaa ttatataaag gatgaaagta gtcaattttt 120  
actttaaata gaaaagataa aaaaaataag aatggtttaa atatattttt catacttcta 180  
aaatagatta ttttcatttt attatttttaa tttcattttt taatctaagt attcaacatt 240  
tttttatgtt tcactgtagt atctattatt agtcccatTT tgtaaagtga caacatgaaa 300



aatagagtgt tgcattatct aacacctaata cactaacacg ttaacaaatt tttcacatca 360  
 ttttttatta tt 372

<210> 22664  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 22664

tccacagcaa ctacaagcgg taagtccctc tcaactctct gttatgaagg tttgggggatg 60  
 tcacatatgt ggaggaacac atgagtcatg cttatgcatg gtccaagatg aagcatccaa 120  
 tgaagttaac tacatgggca gtcataatca tcaaggattc catcaaagag gaccaccagg 180  
 attctatcag agcgataatt ttttgcagga ccacgattgg agatattatc caagtaataa 240  
 cttcaaccaa ggggggtcac cctatcagca tcctagtcag ggtccgagtc agcaagagaa 300  
 gccgcctatc agtatagagg aaatgctctt aagtttcatc caagagacaa gggcaaacgc 360  
 tcaggagacg aaggcattca tccaggcaaa tgctcaagag aaaaaaacat tcatcca 417

<210> 22665  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 22665

ttgtcttaat ggagtctatg ccaacactag gagaactcac aaaattccca taggaagaga 60  
 ggagaaaggc taacagaatc atggcccgcac cttcatatcc tatcttgaca tgaatgctgt 120  
 ggagctccat cataatatat ttgaactcgt cgatatgtac ttttagtgac gtaccttctc 180  
 tcattcaaag accaaacaaa cctcatttca aaagcaactt gttacaaatt ggtgttttca 240  
 taaagagctt atctagcttg agccataacg caaatatagt attcgcttca gaagcttcat 300  
 aaagaacttc atcagatagt gacaagagaa tcaacgagta acgattttca tgttgcaact 360  
 gaagaactaa ctaatc 376

<210> 22666  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 22666

ctccacagag gccactgact tcctcaccca atattatgag ctaccgtatg ggtgcttcat 60  
ctctgaggac taccacctgt cacccatgag tcatcaattg cataggatga ccatatgtcc 120  
tctaggtgga acgagacact acctataatt atggtgctat ccctaattag ctataattta 180  
tgatacttgc cgaatttctg gacaggaata agacctcaga gatcaaactg aatatgaagc 240  
ggatggacta cctc 254

<210> 22667

<211> 376

<212> DNA

<213> Glycine max

<400> 22667

agctttgctt ctacaatagc tattgagcct gaaagttcac tgccaatttt ccacccctacg 60  
gtgggtatgt tgtttcaata tttttctggg tgtaggattg acagatgttt taaactatta 120  
ttatatgatg acaaattttt ccttatcata ttgttggtta tatatatatt gctaaatggg 180  
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